DOCUMENT RESUME

ED 071 688

LI 004 084

AUTHOR

Harris, Margaret P.

TITLE

A Contribution to Regional Bibliography: Alaska; A

Pilot Study in Indexing.

SPONS AGENCY

Alaska State Dept. of Education, Juneau. Div. of

State Libraries.

PUB DATE

Sep 72

NOTE

112p.: (225 References)

AVAILABLE FROM

Margaret Harris, P. O. Box 3102, Fairbanks, Alaska

99701 (\$3.00)

EDRS PRICE

MF-\$0.65 HC-\$6.58

DESCRIPTORS

Bibliographies: Computer Programs: Indexes.

(Locaters); *Indexing; *Information Retrieval; Pilot

Projects: Regional Programs: Subject Index Terms

IDENTIFIERS *Alaska

ABSTRACT

A pilot study to develop a feasible multi-media index to regional material has just been completed. Its primary objective is to develop a tool for general user access to information invarious formats by combining old and new methods and techniques of information retrieval. Simple computer programs manipulate the information on 106 sample items to produce a register of the items and the access indexes: issuing body/main entry, title and series, and subject/descriptor. Indexing terms were assembled from headings assigned by Library of Congress, Sears, and Readers Guide as well as from thesauri such as "Thesaurus of Engineering and Scientific" Terms" and "Thesaurus of ERIC-Descriptors." The report seeks to avoid undefined jargon of both the library and the computer in the 72 pages of discussion and the appendices. It includes a study of the indexes sampled for regional material and an estimate of the quantity of material and the cost of developing the multi-media index it hopes to pilot. It includes an additional 27 pages of computer printout for the 136 items handled. (Author)

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
DEFICE OF EDUCATION
THIS DOCUMENT HAS BEEN REPRODUCED EJACTLY AS RECEIVED FROM
THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW DR OPINIONS STATED DO NOT NECESSARILY
REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

"PERMISSION TO REPRODUCE THIS COPY-RIGHTED MATERIAL HAS BEEN GRANTED BY W

RIGHTED MATERIAL HAS BEEN GHANTED
BY Margare P

Harry
TO ERIC AND ORGANIZATIONS OPERATING
UNDER AGREEMENTS WITH THE US OFFICE
OF EDUCATION, FURTHER REPRODUCTION
OUTSIDE THE ERIC SYSTEM REQUIRES PERMISSION OF THE COPYRIGHT OWNER."

A CONTRIBUTION TO REGIONAL BIBLIOGRAPHY:

ALASKA

A PILOT STUDY IN INDEXING

Ву

Margaret P. Harris

September, 1972

Fairbanks, Alaska

ŗ

Copyright Margaret P. Harris 1972

į Tinadij

ERIC*

This Study Is Dedicated

To

My Husband

Quinton

For His Enduring

Patience And Understanding

As A Library Widower

And To

All Others Who Have Sought In Vain

A Central Source Of Information

On ALASKA

MEND WAS ESTATED

PREFACE

The great need for access to material dealing with Alaska has long been the concern of researchers and specialists as well as others seeking information. This need and the desire for information have grown rapidly since World War II, statehood, and oil exploration and development. These in turn have increased the quantities of material produced and, consequently, complicated the search for information. The need has been partly met by several general, selective bibliographies and by others covering specialized subject areas. However, there is no comprehensive, central source that can guide those seeking information through the maze of material available in many different physical forms. At present much costly, repetitive searching is necessary.

With these things in mind, several concerned individuals discussed the feasibility of compiling a multi-media tool for the general user. As early as 1968, general scope and procedural guidelines were drawn up to produce such a tool, but not until 1971 was a study undertaken.

The present study was made possible by the University of Alaska through a six months leave grant to a staff member and the subsequent support of its Rasmuson Library. The Division of State Libraries, Alaska Department of Education, gave financial support. It is hoped the accompanying report will justify the greatly appreciated support of both.

Many interested individuals have generously given professional support, advice, and encouragement to the project. Especial thanks are due:

Marie Tremaine, former editor of Arctic Bibliography Maret Martna, present editor of Arctic Bibliography Marilyn and Dan Lester, Mankato State College



Phyllis Dalton, California State Library

Audrey Grosch, Wilson Library, University of Minnesota

Loyd Rathbun and Mary Granese, Lincoln Library, M. I. T.

Peg Jackson, Project INTREX, M. I. T.

Geza Thuronyi, Library of Congress

W. Carl Jackson and Elizabeth Bradt, Fenn State Univ. Libraries

Jessica Harris and Ted Hines, Columbia School of Library Service

Edna Kanely and Mae Collins, Superintendent of Documents Office, GPO

Others who were particularly helpful:
Dick Engen, Phyllis Nottingham, and Bob de Armond, Alaska State Libraries
Phyllis Carlson, Loussac Library, Anchorage
Merlie Hughes, formerly at Arctic Health Research Center, College
Elizabeth Carroll, Alaska Methodist University
Miriam Allen and her staff, University of Washington Libraries
Melvin Weinstock, Institute for Scientific Information
Stanley Tucker, Engineering Index
Dick Angell, James Argentaged Lane

Dick Angell, James Angenbroad, Arlene Custer, and Mary Young, Library of Congress

James Adler, Congressional Information Service
John Davis, National Center for Atmospheric Pressure
Roy Stamm, National Technical Information Service
Marian Huttner and Mary Dyar, Minneapolis Public Library
Robert Geiman, U. S. Office of Education, Seattle
Marie Angelotti, Florida Atlantic Univ. Libraries
Bruce Alper, Arizona State Univ. Library
Charlotte-Merren, Eric Teacher Education Clearinghouse
Mildred Sherman, Univ. of Washington Libraries
Marie Lick, B. F. Goodrich Research Center
Nita Cooke, Boreal Institute
Jim Quick, Richard Abel & Co., Inc.
Howard Zach, programmer and program consultant for the project

TABLE OF CONTENTS

	•	
		Pag
ĬŃTRŐD	UCT	ION
	•-	•
•		PART I
SECTION	N	~~~ >
Ι.	PR	ELIMINARY STUDY
	Α.	MANUAL AND MACHINE INFORMATION SYSTEMS 3
		INFORMATION RETRIEVAL BY MACHINE
•	C.	INFORMATION RETRIEVAL SYSTEMS USING MACHINES . 6
	D.	INDEXING METHODS AND TECHNIQUES8
II.	SUI	RVEY OF MATERIAL
•	A.	PRINTED MATERIAL
-	В.	OTHER MATERIAL 28
		SUMMARY 30
III.	IND	EXING MATERIALS
•	Α.	IDENTIFYING INFORMATION
	В.	SUBJECT/DESCRIPTORS
	C.	TITLE INDEX ENTRIES
:	D.	SAMPLE SUMMARY
IV.	DEVI	ELOPING THE COMPUTER PROGRAMS 40
. 4	Α.	INPUT 40
J	В.	PROGRAMMING
V. (COST	ESTIMATE

ERIC

	٠,		
			Page
APPENDIX A HOUSE CONCURRENT RESOLUTION NO. 29		• •	50
APPENDIX B SEARCH TERMS	· ·	• •,	
APPENDIX C ALASKA RELATED PERIODICALS		• •	• · · 57
APPENDIX D ALASKA RELATED NEWSPAPERS		• •	60
BIBLIOGRAPHY			65
PART II			
PRINTOUT OF SAMPLE BIBLIOGRAPHY AND INDEXES		٠.	71
INFORMATION RESOURCES ON ALASKA			۰ بد
SOURCE REGISTER			
TITLE INDEX			
SUBJECT DESCRIPTOR INDEX			

LIST OF TABLES

TABLE		Page
		-
1.	ANALYSIS OF ITEMS PUBLISHED OUTSIDE U.S.:	,
	ARCTIC BIBLIOGRAPHY V. 15	19
2.	OVERALL-SAMPLE AVERAGE ENTRIES/ITEM	
3.	INDEXES SAMPLED: 1925 to 1972	21, 22
4.	SOURCE REGISTER AND INDEX ENTRIES	30
5.	ESTIMATE OF IBM CARDS NEEDED AND SIZE OF	•
	PRINTOUT	47

INTRODUCTION

The Alaska Legislature realized the inherent value of a comprehensive index to Alaska related materials when it passed House Concurrent Resolution No. 29 in 1971. This resolution (Appendix A) requests the Department of Education to develop such an index as part of a program to provide access to Alaska materials through bibliographic control. It seeks also, to provide a method of updating the only published comprehensive, general bibliography of Alaska material, A Bibliography of Alaskan Literature, 1724-1924, b. Judge James Wickersham. The indexing system devised is to provide a the saurus of terms and be compatible to the use of the machine.

The need for a study of computer systems and programs presently employed in information retrieval services is implicit in the resolution. Further, indexing systems developed must be molded from the best applicable procedures found to be adaptable to a regional bibliography and index.

Before implementing so large an undertaking, the Director of the Division of State Libraries, who is charged with this index compilation, decided to support a pilot study to determine the problems involved and to estimate the size and cost of the total project. The University of Alaska supported the pilot study, also, by granting six months leave to a library faculty member to conduct it.

The updating of Wickersham's bibliography has long been a concern of many institutions, researchers, librarians, and others in Alaska as well as elsewhere. In 1969 broad guidelines, procedures, and an outline of work to be accomplished in the compilation were formulated, but the



problems of machine use were not included. Therefore, the development of a reasonably adequate and feasible indexing system and programs for machine use to make information accessible to the general user form the main thrust of the present study.

♦

The immediate objectives of the study are first, to estimate the quantities of material and the index entries involved; second, to develop a sample bibliography with feasible computer programmed indexes; and third, to estimate the cost of the total project.

The study falls naturally into the several large divisions of effort shown in the Table of Contents. It should be born in mind that the areas covered warrant much deeper study than time has permitted. Further, this pilot project should be viewed as an initial step in developing the comprehensive bibliography and index.

Despite all there is yet to learn, the writer feels the comprehensive project could well proceed on the basis of the information herein assembled. The excended detail given in several sections of this paper is felt necessary since it furnishes the foundation for the recommendations developed.

PART I

SECTION I

PRELIMINARY STUDY



PART I

SECTION I

PRELIMINARY STUDY

Preliminary study was undertaken to provide background knowledge for the work of the project. From available professional literature and visits to selected indexing and information services using computers, the following discussions seem particularly pertinent to this pilot study.

A. Manual and Machine Information Systems

The term "information system" is broadly interpreted in this report to mean the organization developed to compile, store, and retrieve bibliographic information using printed records, or data, as opposed to the organization developed to perform mathematical computations. The systems studied vary from those using completely man-performed operations to those using machine operations almost entirely.

Systems employing machine, or computer, manipulation of information are generally structured quite differently from those limited to manperformed operations. Manual operations are accomplished, more or less, with a few basic ground rules and a great dependence on the experience, education and skill of the operator. Machine operations, on the other hand, are accomplished only through extremely detailed instructions that seek to duplicate each process involved in the corresponding manual operation. The decision making processes of the human brain, involving elements such as those just mentioned, are not easily duplicated without extremely complex and expensive programming, or instruction. Feasible machine use should, therefore, be limited primarily to routine operations which can actually be performed more satisfactorily by machine than by



4

manual methods, especially where large quantities are concerned.

B. Information Retrieval By Machine

In any information retrieval there must, of course, be retrievable information or data put into the system. In computer operation, the machine is programmed according to precise, prescribed language and techniques, to act upon the data, or input, to produce the desired results, or output. Most of the systems proven to be satisfactory still require considerable human operation in compiling the data for machine manipulation. This is particularly true in indexing for the human operation must arrange and specify the data units in such a way that they can be identified and listed by the machine. The degree of specificity determines the degree of sophistication and complexity needed in programming the instructions given the machine.

Thus, indexing with elementary programs can produce simple machine printed lists of data, and an array of complicated programs can produce machine compiled indexes. The latter process is known as machine indexing, but it appears feasible only when extremely large quantities of data are involved.

The output from machine aided retrieval of information, then, varies from printed lists or indexes (off-line) to stored data banks (on-line). The first necessitates manual searching, but the latter employs machine searching. Further, on-line service displays the search results on a screen and can, if programmed, display the indexed text, print out the information on paper, etc. INTREX (Information Transfer Experiment) at Massachusetts Institute of Technology in Cambridge is a prime example



of on-line service. 1

Information retrieval by machine is admittedly expensive, whether off-line or on-line services are used. Consequently, to achieve the most feasible and economical operation it is imperative to follow a logical procedure in developing the individual system used:

- 1. Determine what outputs, or results, are desired, both now and in the forseeable future.
- 2. Streamline the manual procedures involved in achieving the outputs by eliminating all unessential activities.
- 3. Develop feasible machine programs that duplicate these processes without entailing great additional manual operation and that operate with a minimum expenditure of machine time.

During program development, further refinements and adaptations in both manual procedures and basic machine programs will evolve as deeper insight into both is achieved. For instance, in order to sort alphabetically by machine, abbreviations, handled easily in manual sorting, must be spelled out. Alternatives are lengthy, expensive programming to instruct the machine to file individual abbreviations as the corresponding words, or manual alphabetizing, assigning of identification numbers to each unit and then machine sorting on these numbers. Unless one is aware of machine limitations in duplicating manual procedures, however, much time and effort is wasted through trial and error programming.



سر الح

Council on Library Resources, Recent Developments, CLR (Washington, D.C.: Council on Library Resources, 1973, No. 39, p.1.

Normally, in program development, a point emerges up to which manual is more economical and feasible than machine operation, and beyond which machine operation appears to offer greater advantages. However, to determine this point in any system there must be constant interaction and adaptation between manual procedures and machine programming.

It becomes obvious that with considerable care on the part of a good information specialist and a good programmer, both of whom are somewhat aware of the other's specialty field, many of the difficulties of machine manipulation of information can be overcome before programs are finalized. Though this work is highly precise and detailed, it does present tremendous challenge in that, among other advantages, many valuable outputs are feasible with the machine which are not with manual operations.

C. Information Retrieval Systems Using Machines

The systems studied are primarily user oriented as opposed to older systems, which are oriented more to the information specialist servicing the system, such as the librarian. In line with today's proliferation of information in almost all fields of knowledge and the do-it-yourself-world, user oriented systems become imperative. The difficulty, of course is in ascertaining who the user is and what his approaches to information searching are, with his varied educational background and experience, among other factors. Therefore, to be effective, one must direct the system to the specialist in a subject discipline, or to the general user, if such there be, and also, provide minimum assistance in using whatever system is chosen.

Information systems directed to the subject specialist are general-



ly more sophisticated than those directed to the general user. It appeared during the visits to indexing services that the more sophisticated the system, the more complicated the information retrieval, and the greater the repetition factor on the search. As an example, INTREX issues a tome of procedural directions and specific language to be used in on-line searching. It also allows instruction by machine once the user has typed the word "begin". The point is that this sophisticated system involves elaborate programming and considerable instruction before the desired information can be retrieved. The repetition factor ranges from 20 to 25 percent and is purposely incorporated to provide a variety of search approaches, 2 but can be frustrating and highly time consuming. In sharp contrast, the newspaper index issued by the Minneapolis Public Library employs comparatively uninvolved indexing searches, procedures, and machine programs in its off-line operation. The former is oriented to the specialist and the latter to the general user.

Not only are information retrieval systems user oriented, but the attendant physical services are also. Mankato State College Library in Mankato, Minn., furnishes a prime example. In one of its collections it employs the innovative, user oriented practice of juxtaposition of different physical forms of material dealing with a particular subject. Microforms, books, pamphlets, vertical files, and audio-visual materials are interfiled on the shelves for user convenience. So far the

ERIC **

Full Text Provided by ERIC **

Peg Jackson, Interview recorded at Massachusetts Institute of Technology, Project INTREX, Cambridge, Mass., Oct. 6, 1971 by the writer, Transcription, p.1.

arrangement has proven very valuable for the user, although more space is required for storage.³

D. Indexing Methods and Techniques In Machine Systems

There are no standard indexing methods and techniques as such. Great variation exists among the different systems studied with regard to methods and procedures, control and use of descriptors, depth of indexing, scope and arrangement of information, and other factors. Even in the specialized indexes of a particular subject discipline there seems to be little consistency.

In considering the differences in methods and procedures, the most noteworthy are probably those associated with the programming. The more elementary and commonly used programs are KWIC (Keyword in context) and KWOC (Keyword out of context). In their simplest forms, these systems consist of machine rotation of the main words of the title, or title words augmented by descriptors. These words, then, serve as a subject index of sorts. They are really effective in this capacity only when the titles assigned to materials do indicate the content coverage. Since such titles are more common to the sciences than the humanities, KWIC and KWOC are used more frequently in the former. Their wide usage is explained by: "Popularity of these indexes was due to their . . . relative economy and the speed with which they could be produced." However, both systems appear to be interim attempts at bibliographic



Daniel Lester, Interview recorded at Mankato State College Library, Mankato, Minn., Sept. 20, 1971 by the writer, <u>Transcription</u>, p.2.

⁴Carol Fenichel, <u>Editing the Permuterm Subject Index</u> (Philadelphia: Institute for Scientific Information, 1971), p.1.

control in an effort to simply stay abreast of information proliferation.

not only are the programs complex, but also the methods and procedures for compiling the input information. For instance, if an abstract is available as a part of the material, it can be used for assigning indexing terms. If it is not available, the terms are assigned after reading, digesting, and abstracting the material. Developing the indexing terms is very tedious and time consuming. The specialists at Engineering Index, Inc. average about 15 items per day.

With regard to the form of descriptors, i.e., the construction of the terms, and the consistency of their usage, variation ranges from the "free" indexing of INTREX to the strict term control used in Engineering Index. In "free" indexing, the descriptors are generally chosen from the words of the author, who is restricted by his vocabulary only. No term association is provided to aid the searcher (INTREX is contemplating one, however). Therefore, one can readily understand the user's confusion at having to consult a series of synonyms to identify material, as in the case of "altitude", "height", and "elevation". In controlled descriptors, only the approved terms may be used, candidate terms being closely screened before their acceptance. The authority file of the simple operation using controlled terms can thus grow into the sophisticated thesaurus, with "Broader Term", "Narrower Term", etc. of the



Stanley Tucker. Interview at Engineering Index, Inc., New York City, by the writer, Oct. 12, 1971, Notes, p.1.

Jackson, op. cit., p.2.

the form the term assumes — a subdivision of a subject, etc.— and the particular term used from among the available synon, ms. However, it is hoped that with the continued issuance of comprehensive tools, such as TEST (Thesaurus of Engineering and Scientific Terms) and Thesaurus of ERIC Descriptors, more consistency will be achieved.

The depth of indexing sought by various services also shows variation. The number of subject headings assigned in book cataloging generally ranges from two to four for non-fiction. INTREX averages seven or eight terms per 100 word document, i.e., report, journal article, symposium, etc. The National Institute of Mental Health uses 100-300 subject headings/index terms per record in the machine readable data base services reported in research by the American Library Association. This same report shows an average of 20.9 terms per record, or item, for the services reported, but only 9.5 per record when the National Institute of Mental Health report is excluded in computing the average.

Other varying factors mentioned above result from the differing objectives of the individual services, subjective decisions on the part of indexers, etc. and do not warrant lengthy discussion. However, it should be noted that indexing techniques are being constantly refined and improved. The <u>Permuterm Subject Index</u> of the Institute for Scientific Information in Philadelphia is one of the outstanding recent developments in machine indexing.



^{7&}lt;sub>Ibid</sub>.

American Library Association, A Guide to a Selection of Computer-Based Science and Technology Reference Services in the U.S.A. (Chicago: American Library Association, 1969), p.16.

SECTION II

SURVEY OF MATERIAL .

A survey of Alaska related material reveals the bulk of it issued as books, pamphlets, or periodical articles. The rest, sometimes overlooked, if not called to one's attention, appears as audio-visual items, art forms, archives, newspapers, manuscripts, music and museum collections, etc. It is the contention of the writer that a comprehensive bibliography should include the bulk of Alaska related material, to whatever extent may prove feasible, regardless of its physical form.

This study offers a reasonable quantity estimate of the items involved in such a compilation, primarily on the basis of material appearing since 1924. It also recommends the total number of index access entries needed for these items.

Establishing these estimates involved discussions with a number of informed individuals and considerable sampling of indexes, lists, and catalogs. However, it should be born in mind that these are <u>estimates</u> only. Undoubtedly, factors now unforseeable will influence the quantity of the material and the index entries needed as the compilation of the bibliography progresses. As Marie Tremaine observed, one should probably double the quantity estimate, so laboriously compiled, to obtain a more realistic picture of the actual number of items involved in the comprehensive compilation.

The following report well points up the fact that time and financi-



Marie Tremaine, Director Emeritus of <u>Arctic Bibliography</u>, generously advised the writer during visits in May, 1969, and October, 1971.

al support beyond the limits of this study are definitely needed to establish a more exact estimate, if it be needed.

A. Printed Material

1. Indexes: book, periodical, book-periodical, and newspaper

A sampling of selected standard indexes was undertaken to estimate the extent of Alaska material listed and to determine the nature and depth of the indexing employed. The forbearance of the reader is sought during the following detailed discussions for they do seem necessary to the study in its pilot capacity.

a. Sampling the indexes

(1) Choice of indexes

The indexing tools chosen for sampling are fairly comprehensive and broad in scope. Although it is felt these include the major part of Alaska related items available through indexes, some of the limitations of the sampling are discussed below.

No attempt was made to cover legal resources other than a sampling of the Index to Legal Periodicals. Specialized subject area indexes, such as Biological Abstracts, Abstracts of North American Geology, and Water Resources Research Catalog, are not covered in the sampling. Again, translation indexes and important arctic and polar indexes are omitted since Arctic Bibliography draws the pertinent items from these to a great extent, except for recent material, as explained later in the discussion of the time lag in the indexes.

Another important, unsampled tool is the microfilmed shelf list of the U.S. Government Printing Office, the most comprehensive listing of U.S. Government publications available. However, since it is



arranged by issuing offices, it does not lend itself to a subject search. Although several classifications within this list were examined, time was not available to search the 118 reels. Happily, the bulk of this material can be located by subject in the Monthly Catalog. However, the shelf list will surely need searching in the compilation of the comprehensive bibliography.

The choice of volumes of an individual indexing tool to be sampled was concentrated mainly at the turn of the decades as, 1969-1971, 1959-1961, etc. This proved a happy one in that events affecting Alaska at these times, such as World War II, statehood, oil leases, etc., stimulated much writing. When an index did not lend itself to this choice, as Arctic Bibliography, issues were sampled at specified intervals throughout the series. Whenever time permitted and sheer physical size seemed to warrant, additional years were also included. Current titles are generally used in the summary, although former titles falling within the sample scope were searched, also.

(2) Procedure

Three part time searchers were carefully instructed in the search and recording procedures to be used. All proved exceptional in understanding the importance of care for detail, quick and thorough in their work, and very conscientious in avoiding an evercount when items were found under more than one descriptor.

The searchers usually began by studying the individual tool as a whole to gain elementary familiarity with its arrangement and scope. Then, entries were sought out under "Alaska" and related subject descriptors and geographical terms. A list of search terms was compiled



from the descriptors under which entries were found. This list, minus subdivisions, can serve as a partial basis for a future thesaurus and is given in this paper as Appendix AL

The procedure for recording and tallying involved entering identifying information on blank index card guides, beginning on the index tab and extending below, to facilitate cross checking. The descriptor term or terms under which the item was indexed and the volume consulted were also noted. The guide cards were then arranged, tallied, and banded together by individual volumes within the file for each indexing tool.

(3) Results

The summary of the sampling is given on pages 19 through 22. Discussion of the results and recommendations is pursued in the divisions following.

b. Nature of the indexes

(1) Scope

Some of the indexes limit themselves to books, books and reperiodicals, or newspapers, but the majority are concerned with periodicals only. The Congressional Record Index deals with but one individual periodical.

The Monthly Catalog, Government Reports Index, and Nuclear Science Abstracts are limited mainly to book type materials, although the first mentioned does include maps, charts, posters, etc. The first two limit themselves to U.S. publications, while the last includes also those of foreign governments.

Some indexes, as Education Index and Arctic Bibliography,



cover both books and periodicals. The latter shows an almost equal distribution of Alaska related items in volume 15 between books (47%) and periodical articles (53%), when conference papers in journals are considered as periodical items.

Nuclear Science Abstracts and Arctic Bibliography are international in scope and include material in the original foreign language and/or in translations. In volume 15 of Arctic Bibliography, 23% of the Alaska material was published outside the U.S.

Occasional overlapping is found from one indexing tool to another. An instance of this is demonstrated by the periodical Science. Both Readers' Guide and Applied Science and Technology Index cover it despite the fact they are published by the same company. There is considerably more overlap between the Monthly Catalog and Arctic Bibliography. In fact, the latter includes so many U.S. Government publications that this category of material is ignored in the overall estimate of material from this tool. Since none of the indexing tools sampled exhausts the areas within its scope, the indexing overlap, except in the case just mentioned, is considered offset by the additional items to be gleaned later from indexes not sampled and items not included in bibliographic tools.

(2) Time lag

The time between publication date of material and its appearance in an indexing tool is usually reasonably short. In both the Monthly Catalog and Arctic Bibliography, however, the lag extends up to three years or longer. This lag is exceptional in the former, but quite usual in the latter. Of the 6,040 papers in volume 15 of the



latter, published in 1971, but 200 papers bear the imprint date of 1968, the latest included in this volume. 10

(3) Arrangement and inclusion of material

ment Reports Index, and Arctic Bibliography give the full citation for items in a section separate from the index using item entry numbers for access. All except the first mentioned generally include the additional feature of abstracts, sometimes quite lengthy. In these tools the index section may appear as part of the volume or separately. Cumulative indexes covering a substantial number of years are available except for Arctic Bibliography, which is presently compiling one for its 15 volumes. Except for Monthly Catalog, these indexes are arranged in two columns to the page. Arctic Bibliography alone, uses consecutive entry numbering throughout the series. The other indexes limit entry numbering to the year span concerned.

Identifying information is generally entered by author and/or title under the index descriptor, except in the <u>New York Times</u>

Index. This does not specify the title of an article, or give headlines, but rather, identifies material under the descriptor term by the date of the paper's issue and a brief annotation.

(4) Descriptor terms

In this study, descriptor terms refer to both subject and geographical, but not to other indexing terms, such as title.

Many indexes examined are geographically oriented, with



Actic Institute of North America, <u>Arctic Bibliography</u> (Montreal and London: McGill-Queen's Univ. Press, 1971), vol. 15, p.v.

entries under "Alaska", its subdivisions and phrase headings, or under "Alaska" as a subject subdivision, as in "Botany - Alaska". Some indexés use both approaches and items appear under both "Botany - Alaska" and "Alaska - Botany". However, identical entries do not necessarily appear under these similar descriptors. In the sampling a reasonably accurate estimate necessitated much cross-checking to avoid overcount.

It should be noted that Arctic Bibliography has developed such fine shades of meaning and scope relevance between similar terms that long, tedious searching is necessary to sift out Alaska related material by the index entry approach. This is further illustrated by the following, somewhat different type of example: under "Aleutian Islands" one must determine which items concern Alaska only and which concern Russia.

There can be great variation within the individual tool from one volume or year span to another and inconsistencies in indexing exist even within a single volume. Some of these variations are attributable to human error, some to subjective indexing, some to changing terminology, and yet others to machine indexing approaches now being implemented in the more recent volumes of several tools.

Indexes that employ a subject approach only, as mentioned above, generally deal with specific subject disciplines and hence require lengthy searching for Alaska material. Notables of this type are Bibliography of Agriculture, Engineering Index, Index Medicus, and Index To Legal Periodicals. Of these, the last mentioned, alone, was examined because of the lengthy search time involved. However, it should be noted that relevant entries in the first three indexes are fairly well covered



in Arctic Bibliography, except for current material.

The variation in descriptor terminology from one tool to another, aside from geographical entries, is surprisingly small. Although only a limited number of terms are common to more than two indexes, many of the major descriptors are common to most of them. The greatest variation seems to be in the degree of specificity, as opposed to the generality of the indexing terms assigned.

(5) Depth of indexing

As could be expected, there is some variation in the depth of indexing, but not to the degree anticipated by the study. The number of descriptor terms used was tallied for the following: Applied Science and Technology Index, Arctic Bibliography, Monthly Catalog, and Readers' Guide.

Readers' Guide leads in the use of but one descriptor, followed closely by Applied Science and Technology Index, with Arctic Bibliography showing almost one-third of its items listed under but one descriptor. In the use of two descriptors, Monthly Catalog leads with over half its items and Applied Science and Technology Index uses two descriptors for slightly more than one-fourth of its items. Monthly Catalog leads also, in the indexes using three or more descriptors, for a bit more than one-third of the items. Arctic Bibliography, surprisingly, for it occasionally employs six or more descriptors for some items, shows not quite one-fifth of the items using three or more terms. E. M. Smith states that, "Each publication included in the register is indexed for its subject matter (often subdivided for region) and also under the region in which the work was done (subdivided for subject)"



in her study of Arctic Bibliography. However, the survey's finding of about one-third of the Alaska items using but one descriptor may reflect the fact that periodicals average fewer descriptors than books, since about half the items are periodicals. Again, a large number of items may not be concerned with research, as items from the Alaska Sportsman, a magazine.

It would seem from the sampling that the average number of descriptors can be considered one to two for periodicals and two to three for book materials.

TABLE 1
ANALYSIS OF ITEMS PUBLISHED OUTSIDE U. S.: ARCTIC BIBLIOGRAPHY V. 15

Total Items	% of Total = Ak. Items	% Ak. Book Items	% Ak. Per. Items	Breakdown By Country		
269	24	30	70	Russian	43.5	
•		***		English	19.3	
				Canadian	17.1	
	-			Swedish	4.5	
Dist	Japanese	4.5				
220,	ribution of_Desc % Items Using			Other	11.1	

1/Item	2/Item	3 or More/ Item
34	45	21

E. M. Smith, Arctic Bibliography, Canadian Library Association Occasional Paper no. 79, (Ottawa, Canada: Canadian Library Association, 1970, p. 10.

TABLE 2

OVERALL SAMPLE AVERAGE ENTRIES/ITEM

Index Name	Sample Size	1/Item %	2/Item	3 or More/
Applied Science & Technology Index	10 yrs.	70	28	2
Arctic Bibliography	v. 15	'33	49	18
Monthly Catalog	3 yrs.	10	55	35
Readers' Guide	ll yrs.	77	19 🖘	4
Book Indexes Average*	-	21.5	52	26.5,
Per. Indexes Average		73.5	23.5	3

^{*} The percentage of 2/Item and 3 or More/Item is actually higher for books than for periodicals for almost half the items in Arctic Bibliography are periodicals.

ERIC Full Text Provided by ERIC

TABLE 3
INDEXES SAMPLED: . 1925 to 1972

1925-	1966-	1929-	1925-	1948-	F.		ARCTIC BIBLIOGRAPHY V• 1-15	9: TECHNOLOGY INDEX		
19	1.5	6 '6	12	р	1 9	12 n	7 vol.	9	YAS. Searched	
2.75 (S & PR)	.33 (S only)	3.5 (S & PR)	.75 (S only)	(S & PR)	· l (S only)	(S only)	1245 (S & PR)	17 (S & R)	LANCH	MUS
20	107	. 46	1,617	11	451	26	5,992	238	ITEMS FOUND	XIMMIX
8.25 (Allow 10/ entry)	.06 (Allow 1/ : entry);	(Allow 6/ entry)	.027 (Allow 3/ entry)	2 (Allow 3/ entry)	.132 (Allow 2/ entry)	(Allow 3/ entry)	2.45 (Allow 4/ entry)	4.25 (Allow 6/ entry)	MIN/- ENTRY 2	
	71	8	135	9	75	2	856/ vcl.	26	entries/ Yr.	
. 47.	6	43	77	24	11	43	15 vol.	7.7	TOTAL YES.	2
ස	7	35	317	11	35	5	856	122	FROJECT ESTIMATE L SEARCH TIME/HRS.	
47	1.26	344	6,345	216	1,050	86	12,840	1,222	ENTRIES	

INDEXES SAMPLED: 1925 to 1972 TABLE 3 (cont.)

	TOTALS	SCCIAL SCIENCE & HUMANITIES INDEX 1925-	READERS' GUIDE TO PERIODICAL LITERATURE 1925-	NUCLEAR SCIENCE ABSTRACTS 1948-	N. Y. TIMES INDEX 1925-	MONTHLY CATALOG OF GOVERNMENT PUBLICATIONS 1925-	INDEX	
•	119.5 Yrs. & 7 vol.	11	13	7	7	15	YRS. SEARCHED	
	322	11.75 (S & PR)	21•5 (S & PR)	.16 (S only)	7.75 (S & PR)	10 (S & PR)	SUMMARY SEARCH I TIME/HRS. 1 F	
	12,227	136	622	, 164	709	2,088	AARY ITEMS FOUND	
	l	5.1 (Allow 7/ entry)	2.46 (Allow 4/ entry) ,	.06 (Allow 2/ entry)	.754 (Allow 2/ entry)	3.55 (Allow 6/ entry)	MIN/ ENTRY ²	
,	1	12	181	24	101	139	ENTRIES/ YR.	
	483 Yrs. & 15 vol.	47 .	47	24,	47	47	TOTAL YRS.	
	. 2,443	66	150	20	158	653	PROJECT ESTIMATE L SEARCH TIME/HRS.	
	564 37 , 252		2,256	576	4,747	6,533	ENTRIES	

^{1.} S=Searching; R=Recording identifying information; PR=Partial recording of information
2 Time allowed for recording full citation and arranging records

2. Book materials

a. Item quantity estimate

As mentioned in the introductory section, there has been extensive effort, especially in the subject disciplines, to establish bibliographic control of Alaska related material in supplement to the Wickersham bibliography. Ar outstanding, unpublished, general work merits noting here. 12 It consists of a card file and purports to list approximately 8,000 to 9,000 books in all fields, languages, and editions. The compiler states that publications of research institutes, universities, legal bodies, organizations, the U.S. Government, the Alaska State Government, and periodical literature are not covered, except for a few scattered entries. Further, although some works cited are included in the Wickersham bibliography, variant editions and titles within its time scope, but overlooked, are included in this file. The compiler feels, for the sake of a quantity estimate, that any listing of pre-1924 material is offset by the items she may have overlooked since 1924. Since this work is oriented toward the commercial publishing field, rather than the scientific or scholarly, it can serve as a complement to the book estimate made on the basis of the preceding survey.

To this basic estimate of 8,000 to 9,000 items should be added, then, approximately 11,000 to 12,000 U.S. Government publications.

This figure is obtained from the summary above and an estimate of items in Research in Education and 3,300 items in the Catalog of Public Docu-



Elsie Tourville of Fairbanks, Ak., displayed and explained her file to the writer in 1969. The information above reflects the status of the file as of July, 1972.

uments of the Congress and agency or department publication lists.

8,000 to 9,000 items are estimated for the publications of universities, research institutes, organizations, societies, and the Alaska State Government. This figure includes also 900 items published outside of the U.S. and an estimated 3,000 items not listed in indexes.

The overall book estimate made, then, is between 27,000 and 30,000 items of Alaska related materials.

b. Index entry estimate

(1) Descriptor entries

It is recommended that wherever possible, Library of Congress subject headings be adapted for use as descriptors. It must be remembered, however, that their approach is that of cataloging, rather than indexing, by subject (usually broader) rather than by descriptor (usually more specific). Further, their viewpoint is national and international, rather than regional. These factors necessitate the addition of descriptors peculiar to northern areas, perhaps more similar to those used in Arctic Bibliography.

The average number of subject headings assigned for non-fiction by the Library of Congress is estimated at under three. The number of descriptors used in the commercial and government indexing services sampled averages more than two per book. The sample bibliography, which follows in Part II, shows an average of 3.02 descriptors per non-fiction item. The recommended average is therefore, between three and four descriptors per non-fiction item indexed.

Fiction material has not been segregated in the quantity estimate. Since it usually requires no descriptors, but occasionally uses one, the



overall average of three descriptors per item is recommended. On this basis, approximately 81,000 to 90,000 descriptor entries are needed for book material. These are understood to mean the entries that identify individual items in the source register and not the descriptor terms themselves. An estimate of the latter can be made later.

(2) Other entries

In addition to the descriptors, entries are needed for the title and series index and the main entry and additional author index. In the sample in Part II the source register serves also as an index to main and added authors. This practice, however, will not be easily accomplished in the bibliography of Alaska materials because of the inconvenience of manually manipulating large quantities of items before assigning identifying numbers. Therefore, a size estimate is made also for the author-issuing body index, including added author entries.

The sample bibliography and its title index show an average of 1.5 entries for titles, including also series entries, and an average of 1.87 entries for authors and issuing bodies. Since the sample consists mainly of U.S. Government publications, which generally require more entries than other types of material, it is estimated an average of 1.3 title entries and 1.6 author-issuing body entries will suffice. This means 35,000 to 39,000 title index entries and 43,000 to 48,000 author-issuing body index entries.

c. Summary

The study estimates there are 27,000 to 30,000 book materials relating to Alaska. 81,000 to 90,000 descriptor entries will be needed, 35,000 to 39,000 title entries, and 43,000 to 48,000 author—issuing body entries for the three indexes.



3. Periodical material excluding newspapers

a. Item quantity estimate

The number of periodical items of concern to Alaska in the indexes sampled was calculated at 18,000. To this should be added an estimate for periodical articles not covered by the sampled indexes, either by not being included at all, or by being only partially indexed, as with the Alaska Sportsman. No attempt was made to analyze the individual Alaska and arctic periodicals, except for a single issue of the Alaska Sportsman. A partial list is included as Appendix C. Change of title, variation in size, number of issues per year, number of years of individual periodicals, and various other complications warrant a special study of this material. A rough estimate would indicate approximately 8,000 to 10,000 items, including foreign articles. This is based partly on the results of indexing a sample issue and the experiences of the personnel in two of Alaska's libraries who are maintaining an index of Alaska Sportsman. The number of articles indexed per periodical issue will vary from three to ten, depending upon some of the factors mentioned above. It is recommended that an average of four to five articles is a feasible number for each issue of the periodicals not indexed in the standard indexing tools.

The total estimate for periodical articles is 26,000 to 28,000.

b. Index entries estimate

It is evident from the summary on the use of descriptors that the more general material, such as that covered by <u>Readers' Guide</u> and <u>Applied Science and Technology Index</u>, can be sufficiently handled with but one descriptor in almost three-fourths of its material. The :less



general material appears to require two for over half its material, as shown by Arctic Bibliography and Monthly Catalog. The study recommends using a geographical descriptor if the article deals with other than Alaska in general, and a subject approach for an average of two descriptor entries per item. For the periodical articles estimated, then, 52,000 to 56,000 descriptor entries will be needed.

As with book items, it is recommended that author and issuing body and title entries be used when available. The coefficient for each type of entry, in relation to the items indexed is 1.1 per item. This yields 28,600 to 30,800 entries for each type of index.

c. Summary

An estimated 26,000 to 28,000 periodical items will need 28,600 to 30,800 entries each for the author-issuing office index and for the title index. 52,000 to 56,000 entries are needed for the descriptor index.

4. Newspapers

Approximately 5,000 Alaska items appear in the New York Times, using approximately 10,000 descriptor entries and no title entries. No estimate is available for those appearing in other American and foreign newspapers published outside Alaska. Nor is there information on how many items in Alaska newspapers should be made accessible through indexing. However, it is presumed the last mentioned will yield a quantity large enough to warrant a separate index. Although some indexing has been accomplished, the great bulk lies ahead, including also the papers prior to 1925. Regrettably, the present project could not study this area except to compile the partial listing which appears as Append-



ix D. The list is based primarily on the titles at the Rasmuson Library and those listed in the Wickersham bibliography.

It is recommended the <u>New York Times</u> entries on Alaska be considered in the compilation of Alaska information resources. Further, it is recommended that a pilot study be undertaken for Alaska newspaper indexing and that the indexing terms developed be compatible to those assigned in the descriptor index of the bibliography of Alaska materials. In this way the newspaper index can become part of the overall project with references from the latter to the newspaper resources index.

B. Other Material

Quantities involved will not be large in comparison with printed material. A reasonable estimate would be 5,000 items. It is advised that the bulk of this material, except for much of the audio-visual, be handled by units or collections. Broad descriptors can be entered in the bibliography descriptor index and referrals made to more detailed listings to be found elsewhere. This is especially true of archival, manuscript, and museum material.

1. Audio-Visual material

The item quantity estimate is given at 900 items: films, 200; slides, 50; miscellaneous archival film, etc., 150; and oral tapes, 500. An average of two descriptors and one index entry each for producer or sponsor, etc. and one for title is recommended. This is based partly on the practices at Mankato State College Library.

The total estimate, then, is 900 items with 1800 entries for the descriptor index, 900 for the author-issuing body index, and 900 for the title index.



2. Archival and manuscript material

It is difficult to estimate this material because of unreported statistics and the limitations of this study. The collections in the Rasmuson Library presently number 137 major collections. The holdings of the State Archives, historical societies and museums in Alaska should be added to this, as well as a substantial, but difficult to estimate, quantity of archival and manuscript material in public and private repositories outside Alaska. Here an average of two descriptor and about one and one-fourth author-issuing body index entries seems advisable. A title approach may not be essential and is not estimated.

The estimate total is given at 3,000 items with 6,000 descriptor and 3,800 author-issuing body entries.

3. Microforms

The term "microform" is generally applied to a variety of sizes and types or microfilm, microfiche, microcards, etc. used to reproduce materials available only on a very limited basis. These are usually printed or manuscript materials and are involved in the bibliography for they provide another point of access to items not readily available. No quantity estimate has been attempted.

4. Map, museum, art form, music, and miscellaneous material

Definite information is lacking also for most of these categories except for the fact that U.S. Geological Survey has over 200 maps concerned with Alaska, excluding superceded issues, some of which are listed in the Monthly Catalog. At this point, 1,000 items or collections seems a very minimal estimate. These would require 2,000 descriptor, 1,000 title, and 1,000 author-iss. In body entries in indexes.



5. Summary

In rounded numbers, 5,000 items are indicated with 6,000 authorissuing body, 2,000 title, and 10,000 descriptor entries.

C. Summary TABLE 5 SOURCE REGISTER AND INDEX ENTRIES (Rounded to thousands)

Type of Material	No. Items	Source Register	Auth-Iss. Body Index	Title Index	Descriptor Index
Book	27-30	27-30	43-48	35-39	81-90
Period- ical	26–28	26-28	28-31	28-31	52-56
News- Paper	5	* * * * * *	is a particular of the state of	br-designa- b — H - NA materia d	10
Other	5	5	6	2	10
Total Rounded)	63-68	58-63	77–85	65–72	153-166



SECTION III

INDEXING MATERIALS

Indexing is broadly interpreted in this report to mean the use of subject and/or descriptor terms to provide reasonable access to information. In order to develop recommendations a sample roject was undertaken to list and index items representing material in several formats. The results of the sample project are presented in Part II.

The selection of the included items was based on their relevance to various problems anticipated or encountered in adapting indexing terminology and procedures to machine use. This selection does not imply that these are the only types of problems involved, but rather, that this sample size is minimal for developing reasonably valid recommendations concerning the basic indexing problems.

The items selected date from 1921 into the present and consist mainly of U.S. Government publications because of their particular interest to the study. A notable exception to the date span is the 1900 Compilation of Narratives of Exploration in Alaska, number 000083 in the source register of Part II, and its analytic entries. This is purposely included because of its wealth of resource material, the complexity of its indexing, and the fact that, in the opinion of the writer, neither the Wickersham bibliography, nor Library of Congress cataloging provides reasonable access to its contents. Other exceptions, COCOIC, 000029, and 000062, are included for the sake of comparison with other volumes indexed.

As stated in Section II above, items dealing with Alaska run the



gamut of variation in physical format. The following discussion seeks to clarify methods of handling these variations. Print, or printed, material is limited to formats employing the alphabet, as opposed to art prints.

A. Identifying Information

1. Main entry

This may take the form of an author, issuing agency or department, artist, musician, photographer, sculptor, originator, periodical title, object, or a number of other entries, depending on the material indexed.

with minor adaptations, Library of Congress rules are followed for the entry form of printed material except in the case of governmental bodies. The Superintendent of Documents entry is used as the authority in the latter because it appears more user oriented. Although some entries are identical in the two systems, when they are not, the Library of Congress entry complicates the search unless the user is aware of the exact wording of the official name. As an example, note the difference in the filing positions of "U.S. Dept. of the Interior" and "U.S. Interior Dept."

Neither of these authorities covers the indexing of newspapers. Since the newspaper may at times be the only source satisfying certain types of research, its indexing must be seriously considered in the multi-media tool contemplated. Two of the greatest difficulties are the sheer volume involved and the fact that access to information is handled quite differently from that involving books, etc., as shown by such tools as the New York Times Index. Recommendations regarding this indexing are covered later in the report.



Non print formats that are not dealt with by the two authorities mentioned above are generally entered according to the rules set forth in Jean Riddle's Non-Book Materials, the Organization of Integrated Collections, published by the Canadian Library Association in 1970.

2. Description of material

Descriptive information given in the sample also generally follows
Library of Congress rules for print items and Non-Book Materials for
other formats. The latter adapts Library of Congress rules by supplying
titles, when needed, and substituting corresponding non-book terms for
book terms. As an example, a title is provided for realia in 000014
and the length and size are substituted for book size and pagination.

3. Location of material

The location of material in the sample is primarily the Rasmuson Library, University of Alaska at Fairbanks. When the comprehensive index is undertaken, a union list of locations can be developed by adding others, including those outside the State.

B. Subject/Descriptors

This study seeks to develop an indexing terminology broad and flexible enough to include multi-media material, to be machine adaptable, and to provide a tool for general user access to information. Assigning indexing terms proved to be the most difficult part of the whole study in the reconciling of subject and subdivision approaches with the more recently developed descriptor and descriptor phrase approaches. Some of the compromises developed are apparent both in the following discussions and in the descriptor index in Part II.

Various authorities were consulted, the most often used being



Subject Headings Used in the Dictionary Catalogs of the Library of Congress, 7th ed., Monthly Catalog, Arctic Bibliography, Thesaurus of Engineering and Scientific Terms (referred to as TEST), Thesaurus of ERIC Descriptors, and the Readers' Guide to Periodical Literature (unabridged). An authority file of terms made possible the development of compromises and insured consistency of term usage.

With regard to the depth of indexing, the general user's approach is estimated to involve less than ten search terms for any one item and to average three or four terms. A deeper search can be satisfied by consulting the thesaurus to be developed later for other terms that may occur to the user. The thesaurus will also serve to associate and interrelate the indexing terms used. The depth of indexing employed by the systems studied would seem almost in direct proportion to the funds and expertise available. The following example demonstrates the depth of indexing used by a sophisticated system in a limited subject field. The indexing terms used in the project sample for this material, item 000023, are given as "Chena River", "Water Quality - Chena River", and "Water Composition - Chena River".

BIBLIOGRAPHIC
The Chena River-A Study of a Subarctic Stream, Frey, Paul J.,
Weller, Ernst W., and Berry, Edward C., Alaska Water
Leboratory, FMQA

ABSTRACT:

The Chena River is a subarctic stream flowing westerly from the low mountains of eastern Alaska to the Ianana River near Fairbanks. It is typical of many Interior Alaska rivers with the exception that its lower reaches are highly polluted by domestic and industrial wastes from the Fairbanks area. The purpose of this 3-year study of the river was to understriat the physical, chemical, and biological limnology of the river system and what effect man's influence--past, present, and future--has on the river. Dissolved oxygen was one of the most critical parameters determined. In the summer it is close to saturation. During winter, in the lower river, the concentration approaches limyl. The biological community was studied through both quantitative and qualitative plant and animal collections. The upper reaches of the river are much richer in number of kinds of organisms than the lower reaches. Coliform bacteria counts range from very low in the upper river to over 500,000 per 100/ml below Fairbanks.

A flood control dam is planned for the river above the city of Fairbanks. Significant modification of the water quality and Liota of the river can be expected following the construction of the dam. Proper management of the flow from the irpoundment can reduce the objectionable effects of this dam on the river system.

ACCESSION NO.

KEY WORDS:
benthos
break-up
chemical oxygen demand
coliform
dissolved oxygen
diversity
fixheries
flood control
freeze-up
nutrients
plankton
pollution
reaeration
sewage
temperature
water quality



It should be noted that 16 descriptors are listed by the example, but only three by the project sample. Of these, but one term is common to the two. Since it is intended for the specialist, the above sample uses very specific, highly scientific terms, as opposed to the more general ones of the project sample. However, with all the array of descriptor terms, there seems to be no geographical orientation, in this case rather important, namely, "Chena River". Again, the example above is more machine oriented, needs considerably more human effort in the assembling of data, and consumes considerably more computer time and money than the fairly simple programs developed by the study.

In the project sample, the number of descriptors assigned varies with the nature of the material. In general, it is slightly higher than the number used by Library of Congress for the same material because of its regional orientation. This range in the number of terms is shown by 000038 with a length of two pages and using three descriptors, 000083 with three descriptors and a length of 856 pages, and 000051 with nine descriptors and a length of 228 pages.

In developing the terminology and form of the descriptors, the following guidelines emerged:

- 1. The word "Alaska" is generally dropped since the whole project is concerned therewith. Consequently, the usual subdivisions of Alaska appear as main terms in the descriptor index, as "History" instead of "Alaska History". Again, a subject term is not subdivided by "Alaska".
- 2. In general, subdivision is allowed by geographical area or place other than "Alaska", as in "Mammals Aleutian Islands".
 - 3. Subdivision is also allowed by a limited number of form divi-



A strategy and

sions since form is usually interpreted in this paper to mean physical as opposed to subject form. As an example, "History" is not used as a subdivision in the sample indexing project. The form subdivisions used are mainly "Bibliographies", "Dictionaries", "Indexes", and "Statistics". Physical forms, such as maps, phonotapes, etc., are not used as subdivisions in the interests of interfiling entries of the different media. However, it is recommended that during the compilation of the Alaska bibliography index the need for subdivisions of this nature be carefully reevaluated in the light of the number of entries generated. If a great number of entries develop under one descriptor, some phrase or other subdivision will be needed. When only a few entries are found, then subdivision is not indicated.

- 4. Dates are also allowable as subdivisions, provided that if there be more than one, the same number of digits appears on either side of the separating hyphen, as "History 1867-1859".
- 5. Subdivision by subject is generally not allowed. "Economic Conditions Pribilof Islands" is used, but not "Pribilof Islands Economic Conditions". When subject subdivision seems desirable, phrase terms are used. In the foregoing case, the heading would be "Pribilof Islands Economic Conditions". The same would be true also for "History", as "Fairbanks Area History" rather than "Fairbanks Area History". This development is partly an adaptation to machine usage.
- 6. Following a practice of Arctic Bibliography, collective terms are used as main headings to gather material of especial interest in one place. Note that in the descriptor index exploring expeditions are entered both under their individual names and under the heading "Explor-



ing Expeditions".

- 7. Specific rather than general terms are used if the material being processed is specific. For instance, a book on the carving of totem poles would have a descriptor reflecting the words "totem poles" rather than the more general heading "Wood Carving". If more than four subjects are concerned, general headings are used, but in the indexing sample, fewer are usually individually listed. Exceptions to this rule are, of course, allowable when warranted in the opinion of the indexer, as in the case of 000051. This item uses the maximum number of nine possible individual descriptors.
- 8. When the authorities consulted are in conflict, the choice of descriptors is prejudiced toward the general user and the more specific term. A case in point is "Placer Mining". This is used by TEST, while Library of Congress uses "Hydraulic Mining". The former is considered a narrower term (NT) and the latter a broader one (BT) in TEST, thus allowing the use of either term, depending on the material. Library of Congress does not allow the use of "Placer Mining", as indicated by a "see" reference to "Hydraulic Mining". "Placer Mining" is the more specific of the two terms and deemed more suitable to indexing Alaska material. When it is limited to placer mining. Since Library of Congress is undergoing extensive revision and updating of its subject headings, 13 considerable liberty has been taken throughout this study in adapting its headings to an indexing approach.
 - 9. The control and interrelation of the indexing terms used is



^{13&}quot;Semiannual Report on Developments at the Library of Congress, June 1972," L. C. Information Bulletin, 31, No. 25 (June 23, 1972), Appendix,

very important to this study in assuring consistency. But one of the indexing services visited, INTREX, does not maintain a thesaurus, or master list, of indexing terms. These terms have been developed during the process of indexing rather than by prestructuring except in cases where indexing terms were assigned in conjunction with classification schedules, as in the Library of Congress, Universal Decimal, or COSATI classification schedules. The results of the "free" indexing experiment at INTREX cannot be fully evaluated for several years.

10. Terms are used in the plural form for the sake of consistency when the plural form is implied. This does not exclude the use of the singular form, but gives a different interpretation. For instance, for the sake of indexing the realia item in the sample, the term "Violins" is used, meaning the physical structures, rather than the term "Violin", which refers to other than the physical violin.

C. Title Index Entries

Title entries are made for brief title and subtitle, if applicable. They are also made for identifiable series, as Fauna Ser 5 in OOOOAl. When series have no distinctive title, they are entered under the issuing body as U.S. Geological Survey Bulletin in OOOOlO.

D. Sample Summary

The 106 items indexed in the sample, with the exclusion of the single fiction item, 000012, average 2.92 subject/descriptors per item. Of this overall average, the non print items average 2 and the non fiction average 3.02. The sample also shows 157 title index entries, or a factor of 1.5 entries per item.



EXAMPLES GIVEN FROM THE SUMMARY

Added entries: U S Biological Survey (000029)

Archival material: 000019

Autobiographies: 000018, 000042

Bibliographies: 000007, 000090

Biographies: 000030, 000042

Compilations: 000083

Contents notes: 000083

Cross references: Khleknikov, Alaska Library Assn, Northern Commercial Co

Dictionaries: 000010

Editions: 000010, 000045, 000046; 000061, 000062

Editions, revised: 000065, 000066

Editors: Beatty, Willard W (000050)

Fiction: 000012

Folders: 000007, 000088

Indexes: 000091

Joint authors: Palmer, Lawrence J; Noste, Nonan V

Maps: 000016, 000033, 000091

Migrofilm cards: 000036

Motion pictures: 000004, 000068

Newspapers: 000060

Paintings: 000040

Periodical articles: 000011, 000017, 000064 (whole issue on Ak.)

Periodicals: 000005

Phonotapes: 000018

Photographs: 000039, 000028

Publishers of esp. interest: Haskell Institute (000050)

Realia: 000014

Separates bound together: 000001, 000002 (continuous paging), 000100 (individual and continuous paging), 000059 (individual paging)

Series analytics: 000013, 000015 (for 000098, 000099)

Series entries: 000098, 000099

Series notes: 000027 (for analytics), 000070 (not analyzed)

Superceded material: 000048

Supplements: 000071
Translations: 000059



SECTION IV

DEVELOPING THE COMPUTER PROGRAMS

As mentioned in Section I, the desired outputs of the machine programming must be determined; mechanical procedures must be essential to those outputs; and feasible programs must be developed to duplicate manual procedures from the point established for machine intervention. It was also stated that constant interchange and adaptation are necessary between manual procedures and machine programming. The following discussion explains the procedures developed in producing the printout given in Part II.

A. Input

1. Data gathering

The input information was assembled and the indexing elements assigned before programs were developed. It was decided that access should be available to the sample bibliography from three separate approaches: author-issuing body, title, and descriptor or subject. With future demands in mind, fairly complete bibliographic information, including copy location, was given in the basic data for the sample items.

2. Keypunching

Data is necessarily arranged so the computer can identify and reproduce it for the indexes indicated above. In the interests of feasible operation, i.e., a minimum of keypunching and machine processing, the following ground rules have been developed after considerable experimenting.

a. In general

- (1) Eliminate all punctuation and spacing not essential to clarity of interpretation or to effecient programming.
- (2) Use only specified abbreviations in areas of concern to machine alphabetizing. In other areas, words may be truncated or abbreviated at will as long as clarity is maintained, although it is definitely advisable to aim for consistency. The cut off character (letter or numeral) at which abbreviation may begin is set at 25.
- (3) Omit the use of "a" and "the" even though these are normally used in the cataloging process.

b. Mechanics

The programs operate on data keypunched into 80 column IBM unit record cards. The first six columns are reserved for the register identification number on all cards except added author or added issuing body cards. In these cards the first six columns are left blank and the identification number appears in parentheses two spaces after the entry. The last two columns are reserved on all cards for the card identification number. The assignment of information to columns 7 through 78 varies with the format of the printout of the type of card concerned. The card numbers are assigned according to the following:

ll through 19 are source register entry cards with card 11 used for the main entry and cards 12 through 19 for additional author or issuing body cards.

- 21 through 29 are used for descriptive information.
- 31 through 39 indicate the descriptor, or subject assignment.
- 41 through 49 are used for title and series entries.



- 51 through 59 show locations of material and call numbers.
- 61 through 63 are reserved for "see" and "see also" cross references in the author-issuing body index.
- 71 is reserved for the "see" cross references in the descriptor index.
- 81 and 82 are used for the "see also" cross references of the descriptor index.
- 91. can be used for series "see" and 92 and 93 for series "see also" cross references.
- 94 through 99, 64 through 69, 72 through 79, and 83 through 89 await future assignment, if needed.

The flexibility of this card assignment is obvious in the amount of information allowable. The 80 column cards have a maximum of 55 to 59 columns available for characters of information beyond those needed for identification numbers, depending on the type of card concerned. Since each set of cards has nine cards available, a large number of characters of information can be recorded. The only area that might be insufficient if greater indexing depth is desired is the 31-39 series. Unassigned card numbers can be used to supplement this series, or more than one descriptor can be entered on a single card. The latter, however, was tried in the present program, but the additional computer processing time and the complicated proof reading of punched cards made this unfeasible.

With but one descriptor allowed per card, then, nine descriptors are allowed in the present program for that was deemed sufficient. In 000083, for example, individual entries are made for the analytics of the reports in the compilation. On the other hand, 000059 handles the three



separate authors as though they were added authors, the titles as though they were additional titles, and the descriptors as though they pertained to the entire volume.

Within the types of cards enumerated above, definite fields or areas for keypunching certain information were set. For instance, the publication date of an item always appears in columns 65 through 68 of the last card used for that item in the 21-29 series.

Besides keypunching specific information in its assigned field, other adaptations were needed. For instance, the spacing of characters in the main and added entries of the source register is planned thus to accommodate the computer rule of filing a space before a character. Thus all "U S" issuing offices will file together before other entries having "U S" as part of the name.

Two allowances for future programming are included in keypunching the data or information. One is the placement of the period after the title on the 21 card, sometimes in a rather surprising location, because of field limitations. Future refinement of the present title program will allow the computer to identify titles without having them specified on the 41-49 cards. The same is true of the series entry enclosed in parentheses as part of the descriptive information on the 21-29 cards.

B. Programming

The programs were kept as simple as possible. They were written mostly in COPOL and used with the IBM 360 D40 computer in the Computer Center at the University of Alaska in Fairbanks. The programs developed were the source register, which serves also as the author-issuing body index in the sample, the title index, the descriptor index, and the proof



copy.

The source register lists the full bibliographic information for each item and includes "see" and "see also" cross references. The title index and the descriptor index identify material by title, publication date, and the assigned register number. "See" and "see also" cross references are possible in both indexes. The proof copy lists all the input information for each item indexed and listed, card by card.

All the programs allow updating, i.e., the addition of new entries. This fact makes them adaptable, as they stand, to the listing and indexing of Alaska related resource material. However, several further refinements are suggested:

- 1. The field of four characters assigned to the date of publication of an item should be increased to five. This will allow the use of a space or a period after a completed publication date and a dash after that of a continuing publication without truncating the initial numeral in the latter. This will also allow easier user interpretation, but will necessitate repunching one card for each item in the sample, as well as program adaptation.
- 2. The source register program should be adapted to ignore 31-39 and 41-49 cards, if the latter are used. At present these cards are manually removed to prevent their being printed as part of the source register. With a great quantity of cards manual removal of cards is not feasible.
- 3. Adapting the tible program to identify titles and series from the bibliographic data, rather than from the 41-49 cards, should be evaluated on the basis of keypunching time needed to produce these cards as



opposed to the additional computer processing time entailed when the cards are omitted.

In addition to these refinements, a program must yet be written for the author-issuing body index and for a printout of the descriptors themselves and their cross references. The descriptors will form the partial basis for the compilation of a thesaurus of terms needed for indexing term control and as an aid to the user in his search for information. A variety of other programs can be developed from the basic data as long as indexing elements are tagged in some way, by card numbers, position on a card, spacing, punctuation, or other means.

It is recommended the consultant-programmer who developed the title and descriptor index programs be considered for retention in that capacity when the indexing of Alaska materials is implemented because of his familiarity with the programs and the related indexing problems.

SECTION V

COST ESTIMATE (For 2 Yrs.)

Personnel Base Salaries \$239,596.00 Benefits 18,222.46 10% Increase-2d year 12,890.92 Total \$270,709.38 Équipment 5,063.10 C. Supplies 3,284.85 D. Travel 6,000.00 E. Contractural Svces. 77,420.00 GRAND TOTAL \$362,477.33

> COST ESTIMATE (For Updating)

The estimated yearly additions to the index are roughly: 2,000 Items with 8,000 index entries, at a cost of \$12,000.00 a year.



TABLE 6

ESTIMATE OF IBM CARDS NEEDED AND SIZE OF PRINTOUTS (Rounded to Thousands)

Total	Other	Newspaper	Periodical	<u> </u>		Material	Type of	
63 to 68	5	. 5	26 to 28	27 to 30		Number of Items	-	
507 to 551	40	15	182 to 196	270 to 300	f Carrie	Number of		
264 to 286	27		99 to 106	138; to 153		: Source Index		
77 to 85	. 6		28 to 31	43 to 48	Body Index		Number of Lines	
65 to 72	20		28 to 31	35 to 39		Title Index	in Printouts	
153 to 166	10 ,	10	52 to 56	81 to 90	Index	Descriptor		

Note:

ω ν.μ

No entries in the source, main & added entry, or title index allowed for newspapers. No title entries are considered for archival material, calculated under other above. Printout estimate for descriptor index shows lines needed for entries alone. An estimate 8 to 10,000 is made for the descriptors themselves, depending a great deal on the number of names and places indexed.

Fewer cards will need to be punched if program adaptations and refinements are made to eliminate typing of title cards.

COST ESTIMATE DETAIL.

A. Personnel	Total Project Work-wks	Grade or Pay Scale	Personnel
 Administering 	• ***	ray scare	Equiv.
a. Working Director	104	\$22,000	2
b. Secretary	104	9	2.
c. Bookkeeper & Gén.Of:	f. 52	8	1
Searching, Record., Filing	ng 130	7	2.5
3. Indexing			
a. Locating copy,etc.	104	6	2
b. Indexing & thesaurus	3		
(1) Professional	104	\$12,000	2
(2) Clerical	446	8	8.5
4. Keypunching & Verifying			
a. Working supervisor	104	9	2
b. Punchers & verifiers	186	7 ;	3.5
5. Summary		,	
a. Professional			
(1) \$22,000/yr	\$44,000.00		
(2) \$12,000/yr · b. Clerical	24,000.00	\$68,	000.00
	- •		• •
	9/yr. \$14,018.00		
	·		,
	2/yr. 77,254.00		
(4) Grade 9 @ 8,756 c. Grand Total	5/yr. <u>35,024.00</u>		 .
or orang local		\$239,5	96.00
B. Equipment Detail	•		
5 Work Tables 18 Chairs 6 Booktrucks 5 Desks 5 Typewriter Stands 28 Steel Card Storage Cabinets 4 Units Metal Shelving 3 Dictionary Stands 6 Book Racks 2 Storage Cabinets	\$450.00 492.00 302.50 828.00 90.00 \$476.00 240.00 55.50 60.00 141.10	•	



Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers Rental: Card Storage Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters	<u>B.</u>	Equipment (Cont.)			•	
1 Adding Machine Freight on above 500.00 500.00 \$5,063.10 C. Supplies 70,000 Catalog Cards 10 pkgs. Guide Cards 30.00 100 Drawer Labels 2 Rolls Adding Paper 500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 500,000 IBM Unit Record Cards 500,000 IBM Unit Record Cards 500,000 IBM Unit Record Cards 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 4,500.00 Inside Ak. & per diem 4,500.00 E. Contractural Svees. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svees. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Outstarters						
Freight on above 500.00 \$5,063.10 C. Supplies 70,000 Catalog Cards 280.00 10 pkgs. Guide Cards 30.00 100 Drawer Labels 2 Rolls Adding Paper 500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies,etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Outstrees		1 Adding Machine				
C. Supplies 70,000 Catalog Cards 280.00 10 pkgs. Guide Cards 30.00 100 Drawer Labels 2 Rolls Adding Paper 500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters		Freight on above			۸۳ ۸۷۸ ۵۸	
70,000 Catalog Cards 280.00 10 pkgs. Guide Cards 30.00 100 Drawer Labels 2 Rolls Adding Paper 500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IEM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 4,500.00 Inside Ak. & per diem 4,500.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ourstree					\$5,063.10	
10 pkgs. Guide Cards 30.00 100 Drawer Labels 2 Rolls Adding Paper 500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Outstore	<u>C.</u>					
10 pkgs. Guide Cards 30.00 100 Drawer Labels 2 Rolls Adding Paper 500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Outstore		70,000 Catalog Cards	280,00		*	
2 Rolls Adding Paper 500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 Inside Ak. & per diem 2,500.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Reptal: Ouartors		10 pkgs. Guide Cards				
500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Outstore		100 Drawer Labels				
500 File Folders 50 Expandable Folders 9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Outstore		2 Rolls Adding Paper				
9 File Trays, Letter Size 10 Wood Sorting Trays Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Owartore		500 File Folders				
Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouertons		i				
Stationery, Office Supplies, etc. Total of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouartore		9 File Trays, Letter Size				
Solution of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouartore		10 Wood Sorting Trays				
Solution of above 674.85 500,000 IBM Unit Record Cards 700.00 20 Reels Tape for Computer 400.00 Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouartore		Stationery, Office Supplies,	etc.			
20 Reels Tape for Computer Mailing & Postage, incl. charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouarters		total of above	674 85			
Assistants in other libraries 8,000.00 Rental: Card Storage 7,680.00 Rental: Computer 400.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Mailing & Postage, incl. 400.00 \$3,284.85 240.00 \$3,284.85 4,500.00 \$3,284.85 4,500.00 \$4,500.00 \$4,500.00 \$56,000.00 \$6,0		500,000 IBM Unit Record Card	s 700.00			
Charges on loaned material 1200.00 \$3,284.85 D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouarters		20 Reels Tape for Computer				
D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ourstors		Mailing & Postage, incl.				
D. Travel Outside Ak. & per diem 4,500.00 Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ourstore 16,000.00		cnarges on loaned material	1200,00		\$3,284.85	
Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters	D.	Travel_		-		
Inside Ak. & per diem 1,500.00 \$6,000.00 E. Contractural Svces. Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters	•	Outside Ak. & now diam	(
Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers Rental: Card Storage Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. Reproduction of 250 Copies of Printout for Distribution 35,000.00 Reptal: Quarters		Inside Ak. & per diem				
Programmer-Consultant & Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters		and the diper diem	$\frac{1,500,00}{}$		\$6,000.00	
Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters	<u>E.</u>	Contractural Svces.				
Assistants in other libraries 8,000.00 Rental: 2 Keypunches & Verifiers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters		Programmer-Consultant &				
Rental: 2 Keypunches & Verifiers ers 7,680.00 Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Quarters		Assistants in other librari	ies 8.000.00			
Rental: Card Storage 240.00 Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouartors		Rental: 2 Keypunches & Verif	i-			
Telephone, Telex, Telegram Svce.2,000.00 Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Reptal: Ouartors			7,680.00	12 '		
Computer: debugging & Process. 7,000.00 Duplicating Svces. 1,500.00 Reproduction of 250 Copies of Printout for Distribution 35,000.00 Reptal: Quarters		Kental: Card Storage	240.00		•	
Reproduction of 250 Copies of Printout for Distribution 35,000.00 Rental: Ouartors		relephone, Telex, Telegram Sv	ce.2,000.00			
Reproduction of 250 Copies of Printout for Distribution 35,000.00 Reptal: Quarters		Computer: debugging & Process. 7,000.00				
Printout for Distribution 35,000.00 Rental: Ouartors		Duplicating Svces.	1,500.00		•	
Rental: Quartors		reproduction of 250 Copies of				
16,000.00 \$77,420.00			35,000.00			
		Remtal: Quarters	16,000.00		\$77,420.00	



APPENDIX A

Introduced: 3/26/71 Referred: Health, Welfare and Education and Finance

IN THE HOUSE

11

12

15

16

18

20

21

22

23

24

25

26 27

28 29 BY. HOLM, CHANCE, COLLETTA, FARRELL AND SPECKING

HOUSE CONCURRENT RESOLUTION NO. 29

IN THE LEGISLATURE OF THE STATE OF ALASKA

SEVENTH LEGISLATURE - FIRST SESSION

Relating to the indexing of Alaska materials.

BE IT RESOLVED BY THE LEGISLATURE OF THE STATE OF ALASKA:

WHEREAS a vast amount of material has been and is being published daily which pertains to Alaska and which is sorely needed by students, researchers, and governmental employees, as well as numerous other interested citizens; and

WHEREAS the last general index to Alaskana materials was A Bibliography of Alaskan Literature, 1724-1924, by Judge James Wickersham, and there has been no index to material published since that time; and

WHEREAS the federal government as well as other governmental entities and private persons have all been major publishers of materials dealing with Alaska; and

WHEREAS modern technology would allow the creation of an indexing system compatible with the utilization of computers and which would have a thesaurus of terms to the benefit of all users;

BE IT RESOLVED by the Alaska Legislature that the Department of Education is requested to take all necessary steps toward development of such an updating of indexing to Alaska materials as the first project in a long-range program to provide bibliographic control and access to materials on Alaska.

ERIC

Full Text Provided by ERIC

-1-

HCR 29.

APPENDIX B: SEARCH TERMS

ADMINISTRATION & GOVERNMENT

ADMINISTRATION OF SCHOOLS

AERIAL MAPPING

AERIAL MAPS

AERIAL RECONNAISSANCE

AEROLOGY

ALRONAUTICS

AGRICULTURAL IMPLEMENTS & MACHINERY

AGRICULTURAL COLONIZATION

AGRICULTURE

AHTENA INDIANS

AIR

AIRBASE CONSTRUCTION

AIRLINES

ALASKANS

ALEKNAGIK

ALEUTIAN ISLANDS

ALEUTIAN LIVESTOCK CO., INC.

ALEUTS

ALGAE

AJJUMINUM

AMCHITKA ISLAND

ANCHORAGE

ANTHROPOLOGY

ANTIMONY MINES & MINING

ANTIMONY ORES

ANTIQUITIES

APPROPRIATION & EXPENDITURES

ARACHNIDS

ARCHEOLOGY

ARCHITECTURE

ARSENIC

ART

ATHAPASKAN INDIANS

ATMOSPHERIC ELECTRICITY

ATMOSPHERIC PRESSURE

ATOMIC BOMBS TESTING

ATOMIC ENERGY

AURORAS

AUTOMOBILE SERVICE STATIONS

AVIATION

BANKING LAWS & REGULATIONS

BANKS & BANKING

BEARS

BEETLES

BERING SEA

BERTHA, MT.

BIBLIOGRAPHY

BIRDS

BISCN

BOATS & BOATING

BOTANY

BOTTOM SEDIMENTS

BOUNDARIES

BRACHIPODS

BUILDING

BUILDING INDUSTRY

BUTTERFLIES & MOTHS

CAMPING

CARIBOU

CEDAR .

CEREALS

CHEMICAL INDUSTRIES

CHILD HEALTH & WELFARE

CHRISTMAS

CHROMIUM MINES & MINING

CHROMIUM CRES

CITY PLANNING



CLIMATE

COAL

COAL MINES & MINING

COLCNIZATION & SETTLEMENT

COMMERCE

COMMERCIAL AERONAUTICS

COMMUNICATIONS

CONSERVATION OF RESOURCES

CONSTITUTION

COOPERATIVES

COPPER

COPPER MINES & MINING

COPPER ORES

COURTS

CRUSTACEANS

CURRENTS

DAMS

DEFENSES

DENBIGH FLINT COMPLEX

DIET & NUTRITION

DISCOVERY

DISEASE

EARTHQUAKES

ECHINODERMS

ECOLOGY

ECONOMIC CONDITIONS

ECONOMIC GEOGRAPHY

ECONOMIC POLICY

EDUCATION

ELECTIONS

ELECTRIC LINES

ELECTRIC POWER

ELK & MOOSE

ENGINEERING

ENGINEERÍNG EDUCATION

ENVIRONMENTAL POLICY

EROSION

ESKIMO DUGS

ESKIMOS

EXPEDITIONS

EXPLORATION

EYAK

FAIRBANKS

FEDERAL & STATE REGULATIONS

FEDERAL GOVERNMENT

FINANCE

FISH PROCESSING

FISHERIES

FISHERY LAWS & LEGISLATION

FISHES

FISHING

FISHING & FISH, COMMERCIAL

FISHING INDUSTRY

FLIGHTS

FLOODS

FOOD

FOOD SUPPLY

FORAGE CROPS

FOREST FIRES

FORESTS & FORESTRY

FORRESTER ISLAND

FOXES

FRESH-WATER FAUNA

FRONTIER & PIONEER LIFE

FROST

FROZEN GROUND

FUNGI

FUR TRADE

GAME COMMISSION

GAME LAWS



GAME PRESERVES & SANCTUARIES

GARDENS

GARDENS & GARDENING

GEODLTIC SURVEYS & SURVEYING

GEOGRAPHY

GEOLOGY

GEOPHYSICAL INSTITUTE, UNIV. OF AK.

GEOPHYSICAL INVESTIGATIONS

GLACIAL EPOCHS

GLACIAL GEOLOGY

GLACIERS

GOLD

GOLD MINES & MINING

GRAVITY

GREEK CHURCH IN AMERICA

GROUND TEMPERATURE

GULF OF AK.

HALIBUT & HALIBUT FISHERIES

HEATING EQUIPMENT & SYSTEMS

HISTORY

HOSPITALS

HOUSING

HUNTING

HUNTING & TRAPPING

HYDROELECTRIC PLANTS

HYDROLOGICAL SURVEYS & SURVEYING

HYDROLOGY

ICE

ICE AGE

ICE FOG

IMMIGRATION & EMIGRATION

INDIANS

INDIANS, - SEE ALSO NAMES OF TRIBES

TAHTENA, ATHAPASKAN, EYAK, INGALIK, LIVESTOCK & STOCK

KOYUKON, KUTCHIN, NA-DENE, TANAINA, MCKINLEY, MT.

TINNE, TANANA, TĻINGĪT, TSIMSH-

IAN

INDUSTRIES & RESOURCES

INDUSTRY

INGALIK INDIANS

INSECTS

ICNOSPHERE

IRON ORES

JADE

JUNEAU

KATMAI, MT.

KENAI PENINSULA

KLONDIKE

KLONDIKE GOLD-FIELDS

KODIAK

KODIAK ISLAND

KOTZEBUE SOUND

KOYUKON INDIANS

KUTCHIN INDIANS

LAKES

LAND

LAND TENURE

LANDSCAPE PROTECTION

LAW

LAWS, REGULATIONS, ETC.

LEAD ORES

LEGISLATION

LEMMINGS

LEMMINGS, MICE & VOLES

LIBRARIES

LICHENS

LIMINOLOGY

LIQUOR PROBLEMS

MCKINLEY NATIONAL PARK

MAGNETIC SURVEYS

MAMMALS

MAN

MAPS

MAPS & MAPPING

MATANUSKA

MATANUSKA VALLEY

MEDICAL RELIEF WORK

MERCURY MINES & MINING

METALS & MINERALS

METEOROLOGY

METLAKATLA

MICROCLIMATE

MINERAL RESOURCES

MINERALOGY

MINES & MINERAL RESOURCES

MINES & MINING

MISSICNS -

MOLLUSKS

MOOSE

MOSQUITOES

MOSSES & LIVERWORTS

MOUNTAINEERING

MOUNTAINS

MUSIC

MUSIC EDUCATION

MUSIC FESTIVALS

MUSK OX

NA-DENE INDIANS

NAMES, GEOGRAPHIC

NATIVE RACES

NATURAL GAS

NATURAL RESOURCES

NEGROES

NEWSPAPERS

NOMADISM ~

NOME

NORTHERN AK.

NUNIVAK ISLAND

NURSES & NURSING

NUTRITION PROBLEMS

OCEANOGRAPHY

OIL & GAS

OIL & GAS LEASES

OIL & GAS SUPPLY & PRODUCTION

OIL FUEL INDUSTRY

PALEOBOTANY

PALEOCLIMATOLOGY

PALEONTCLOGY

PALMER

PALMER AIRPORT

PAPER

PAPER INDUSTRY

PARKS & RESERVES

PEAT BOGS

PERMAFROST

PETROCHEMICALS INDUSTRY

PETROLEUM

PETROLEUM INDUSTRY

PETROLEUM INDUSTRY & TRADE

PETROLEUM LAWS & REGULATIONS

PETROLEUM PIPLLINES

PETROLCGY

PHOTOGRAPHY

PHOTOINTERPRETATION

PHISICAL GEOGRAPHY

PHYTOGEOGRAPHY

PIPELINES.

PLACER MINING



PLUMBING TRADE

POINT HOPE

POLAR STATIONS

POLITICS & GOVERNMENT

POLLEN

POPULATED PLACES

POPULATION

PORTS

PRIBOLOF ISLANDS

PRINCE WILLIAM SOUND

PROSTITUTION

PROTESTANT CHURCHES

PTARMIGAN

PUBLIC HEALTH

PUBLIC WORKS

PURCHASE, 1867

RADAR

RADIO

RADIOACTIVE DEPOSITS

RAILROADS

READING

RECREATION

REGIONAL PLANNING

REINDEER

RELIGIOUS INSTITUTIONS & AFFAIRS

RETAIL TRADE

RIVER & LAKE IÇE

ROADS

RODENTS

ROUTES

RUSSIANS IN AK.

SAFETY EDUCATION

ST. LAWRENCE ISLAND

ST. PAUL ISLAND

SALINITY

SALMON

SALMON & SALMON FISHERIES

SAND DUNES

SEALING

SEALS

SECURITIES

SEDIMENTATION

SEWAGE & GARBAGE DISPOSAL

SEWARD PENINSULA

SEWERAGE

SHEEP

SHORE LINES

SILVER MINES & MINING

SILVER ORES

SITKA

SITKA MACNETIC OBSERVATORY

SKAGWAY

SNOW

SOCIAL CASEWORK WITH CHILDREN, SEE

CHILD HEALTH & WELFARE

SOCIAL CONDITIONS

SOILS

SOLAR RADIATION

SOUTHEAST AK.

SQUIRRELS

STATEHOOD

STIKINE RIVER

TANAINA INDIANS

TANANA INDIANS

TEACHERS PENSIONS & RETIREMENT

TEACHERS SALARIES

TEACHING

TEMPERATURE

TERRITORIAL LIBRARY BOARD

THORIUM



TIN MINES & MINING

TIN ORES

TINHE INDIANS

TINNE LANGUAGES

TLINGIT INDIANS

TOPOGRAPHICAL SURVEYS

TOURIST TRADE

TRADE & COMMERCE

TRANSPORTATION

TREE RING ANALYSIS

TREES

TSIMSHIAN INDIANS

TUNGSTEN ORES

UNEMPLOYMENT

U.S. AIR FORCE

U.S. EDUCATION OFFICE

UNITS OF WORK

UNIV. OF AK.

UNIV. OF AK. EDUCATION DEPT.

UNIV. OF AK. SCHOOL OF MINES

URANIUM MINES & MINING

VEGETATION

VCCATIONAL EDUCATION

VOLCANOES

VOLCANOES & VOLCANOLOGY

WAGES

WATER & WATERCOURSES

WATER POLLUTION

WATER POWER

WATER SUPPLY

*WATER, UNDERGROUND

WAVES

WILDERNESS AREAS

WILDLIFE CONSERVATION

WILDLIFE CONSERVATION & MANAGEMENT

WIND

WIND, UPPER AIR

WOLVES .

WOMEN

WOOD INDUSTRY

WORMS

YUKON RIVER

ZINC MINES & MINING

ZINC ORES

ZOOLOGY

The above terms were found as subject/descriptor terms under which Alaska related material was found during the study of indexes made by this pilot study.



APPENDIX C

PARTIAL LIST OF ALASKA RELATED PERIODICALS*

Airlift Alaska Medicine

Alaska Alumnus Alaska Monthly Magazine
Alaska Alumnus Alaska Music Educator

Alaska and Northwest Quarterly Alaska News and Information Service

Alaska Baptist Messenger Alaska News Review
Alaska Call Alaska Newsletter

Alaska Conservation Review Alaska Northern Lights

Alaska Construction and Oil Alaska Nurse

Alaska Construction News Alaska Pebble Patter

Alaska Economic Trends Alaska Pioneer

Alaska Education News Alaska Presbyterian
Alaska Employment Trends Alaska Railroad Record

Alaska Farmer Alaska Reporter
Alaska Federationist Alaska Resident
Alaska Fish Tales and Game Trails Alaska Review

Alaska Fisherman Alaska Review of Business and Economic

Alaska Forum Conditions

Alaska From the Inside Alaska School Bulletin
Alaska Heart Alaska Scouting Service

Alaska Herald Alaska Shellfish Landings

Alaska History News Alaska Sportsman

Alaska Industry
Alaska Statistical Quarterly
(became Statistical Quarterly)

Alaska Journal
Alaska Land Lines

Alaska Law Journal Alaska Weekly Crop and Weather Report

Alaska Libraries

Alaska Life
Alaskan
Alaskan

Alaska Local Government
Alaska Magazine
Alaska Magazine

Alaska Magazine and Canadian Yukoner
Alaska Market News

Alaska Market News

Alaskan Quarterly



Alaskan Reporter

Alaska's Health (became the following title)

Alaska's Health and Welfare (became the following title)

Alaska's Health, Welfare and Corrections

Alaska's Manpower Outlook

Alcoholism in Alaska

Arctic

Arctic and Alpine Research

Arctic Anthropology

Arctic Circular

Arctic Development Digest

Arctic News

Arctic Newsletter
Arctic Oil Journal

Arti-Facts
Bear Growls

Beaver

Building Alaska

Bulletin Alaska Division of Gas and

Bulletin Alaska Labor Union

Bulletin Alaska Ornithological Society

Eulletin Alaska Territorial Federation of Labor

. Centennial Press

Climatological Data

Conservation Corner

Counseling - HRD Happenings

Dean

Descent

Direction

Econofacts

Economic Analysis

Eskimo

Farm Bulletin

Flag

Frontier

Glacier

High Water News

Information Letter Alaska National

Guard

Klondike Miner

Klondike News

Labor Demand Bulletin

Labor Supply Bulletin

Local Climatological Data

Magpie

Manpower

Midnight Sunliner

Milestones

Mines and Petroleum Bulletin (became Mines Bulletin)

Mines Bulletin

Moose Gooser

Municipal News

Museum Newsletter

Nancok News

Native News

Native News and B.I.A. Bulletin

Native People

New Alaskan

News Bulletin Alaska Conservation Society (became Alaska Conservation.Review)

ews Bulletin Alsek

News Bulletin Alaska Society of Medical Technologists (became Northern High-Lights)

Newsletter Alaska Historical Soci-

Newsletter Alaska Instructional

Media Assn.



Newsletter Alaska Library Assn. (became Sourdough)

Newsletter Alaska State Library Assn. (became Newsletter Alaska Library Assn.)

Newsletter Arctic Village Demonstration Project

Newsletter Cook Inlet Historical Society

Northern High-Lights

Northern Libraries Bulletin

Now In the North

Pathfinder

Polar Notes

Polar Record

Polar Times

Quarterly Report on Alaska Food Prices

Railbelt Reporter

Revenue News

Sanitation Aid

SCREE

Seismological Bulletin Aleutian Seismic Program

Something New! For Homemakers

Sourchako

Statistical Quarterly

Stella Borealis

Summer Times

Talking Totem

This Month in Alaska

Village Voice

Wainwriter

What's Developing in Alaska

Wien Alaska Arctic Liner



This list covers only periodicals from 1925 on. Those published before 1925 can be located in Wickersham's bibliography.

APPENDIX D

ALASKA RELATED NEWSPAPERS+

Alaska

Alaska Appeal

*Alaska Business

Alaska Capital

Alaska Catholic

Alaska Citizen

Alaska Daily Capital

Alaska Daily Dispatch

Alaska Daily Empire

Alaska Daily Guide

Alaska Daily Press

Alaska Daily Record

Alaska Dispatch

Alaska Evening Post

Alaska Evening Record

Alaska Examiner

Alaska Forum

Alaska Free Press

Alaska Frontier

Alaska Herald (San Francisco)

Alaska Herald (Sitka)

Alaska Journal

Alaska Journal-Express

Alaska Journalist

Alaska Labor News

Alaska Labor Union Bulletin

Alaska Legionnaire

Alaska Miner

Alaska Mining Record

Alaska News

Alaska Pioneer

Alaska Press

Alaska Prospector

Alaska Railroad Record

Alaska Record-Miner

Alaska Searchlight

Alaska Sentinel

Alaska Service Record

Alaska Sourdough

Alaska Sunday Morning Post

Alaska Sunday Press

Alaska Times (Cordova)

Alaska Times (Sitka)

Alaska Travelers Guide

Alaska Tribune

Alaska Truth

Alaska Weekly

Alaska Weekly Post

Alaska Weekly Transcript

Alaskan (Anchorage)

Alaskan (Cordova)

Alaskan (Petersburg)

Alaskan (Sitka)

Alaskan World

*Alaskana

*All Alaska Weekly

Anchorage Alaskan

Anchorage Daily Alaskan

*Anchorage Daily News

*Anchorage Daily Times

Anchorage Daily Times & Cook Inlet

Pioneer

Anchorage Labor News

Anchorage News



Anchorage Sunday Times

Anchorage Weekly Alaskan

Anchorage Weekly Democrat

Anchorage Weekly Times

Anchorage Weekly Times & Alaska

Labor News

Anchorage Weekly Times & Cook Inlet

Pioneer

Arctic Weekly Sun

Avalanch

Bennett Sun

Boob

Bristol Bay Digest

*Buffalo

Chalkyitsik Newspaper

*Chechako News

Chena Herald

*Chilkat Valley News

Chilkoot Post

Chitna Leader

Circle Hot Air Budget

Commoner

*Cook Inlet Courier

Cook Inlet Pioneer

Cook Inlet Pioneer & Knik News

Copper Bee

Copper River Current

Cordova Daily Alaskan

Cordova Daily Herald

Cordova Daily Times

*Cordova Times

Cordova Weekly Times

Council City News

Council Evening News Bulletin

Council News Bulletin

Daily Alaska Citizen

Daily Alaska Dispatch

Daily Alaskan

Daily Bulletin

Daily Evening Record

Daily Miner

Daily Morning Sun

Daily Nome Industrial Worker

Daily Progressive-Miner

*Daily Sentinel

Daily Sitka Sentinel

Daily Sitka Sentinel & Arrowhead

Press

Daily Tanana Tribune

Dawson Daily News

Dawson News

Dawson Weekly News

Democrat

Diamond Drill

Douglas Island News

Douglas Miner

Dyga Press

Dyea Trail

Eagle City Tribune

Eielson Friendly Times

Esquimeaux

Evening Record

*Fairbanks Daily News-Miner

Fairbanks Daily Times

Fairbanks Evening News

Fairbanks Facts

Fairbanks Focus

Fairbanks Gazette

Fairbanks Herald

Fairbanks Miner

Fairbanks News



Fairbanks Record

Fairbanks Sunday Times

Fairbanks Times

Fairbanks Weekly News

Fairbanks Weekly Times

Farthest-North Collegian

Flat Can Opener

Fort Seward News

Forty-Ninth Star

Free Press

*Frontiersman (Palmer)

Frontiersman (Seldovia)

Gleam

Haines Pioneer Press

Homer News

Hot Springs Echo

Hot Springs Echo & Tanana Citizen

Hot Springs Post

Hyder Alaska Miner

Iditarod Nugget

Iditarod Pioneer

Innoko Miner

Interloper

Island Star

Jessen's Daily

Jessen's Weekly

Juneau Alaska Empire

Juneau City Mining Record

Juneau Daily Capital

Juneau Daily Transcript

Juneau Free Lance

Juneau Independent

Juneau "J" Bird

Juneau Journal

Juneau Spirit

Juneau Sunday Capital

Katalla Herald

Kenai Peninsula Pioneer

Ketchikan Alaska Chronicle

*Ketchikan Daily News

Ketchikan Daily Progressive-Miner

Ketchikan Miner

Ketchikan Mining Journal

Ketchikan Morning Mail

Ketchikan Times

Ketchikan Weekly Journal

Klondike News

Klondike Nugget

*Knik Arm Courier

Knik News

Kodiak Bear

Kodiak Hospital News

*Kodiak Mirror

Kodink Pictorial News

Kodiak Shopping News

Kotzebue News

Kusko Times

*Kuskokwim Kronicle

Lynn Canal Weekly

Mailboat Monitor

Matanuska Valley Pioneer

Matanuska Valley Post

Mayo-Keno Bulletin

Midnight Sun

Miner

Miners' Union Bulletin.

Modern Methods

Morning Alaskan

Mukluk Telegraph

Nenana Daily News

10

Nenana News

New Alaskan

News-Letter

Nome Business Directory

Nome Chronicle

Nome Daily Chronicle

Nome Daily Gold Digger

Nome Daily News

Nome Daily Nugget

Nome Democrat

Nome Gold Digger

Nome Industrial Worker

Nome News

*Nome Nugget

Nome Pioneer Press

Nome Semi-Weekly News

Nome Weekly Chronicle

North Star

Northern Light

On the Kenai

Optimist

Petersburg Herald

*Patersburg Press

Petersburg Progressive

Petersburg Weekly Report

Petticoat Gazette

Pilot

*Pioneer

Pioneer All-Alaska Weekly, see

All Alaska Weekly

Pioneer Scout

*Polar Star

Porcupine Nugget

Porcupine Quill

Rampart Miner

*River Times

Ruby Citizen

Ruby Record

Ruby Record-Citizen

Saturday Mail

Seward Daily Gateway

Seward Gateway

*Seward Phoenix Log

Seward Polaris & Kenai Peninsula

Seward Aleutian Chain News

Seward Seaport Record

. Seward Tribune

Seward Weekly Gateway

Sitka Cablegram

Sitka Post

Sitka Progress

Sitka Sentinel

Sitka Sun

Sitka Times

Sitka Tribune

Skagway Cheechako

Skagway Daily Budget

Skagway News

Socialist Press

*Sourdough Sentinel

*Southeast Alaska Empire

*Spectrum

Spenard Life

Standard

Stickeen River Journal

Stroller's Weekly

Sunday Alaska Dispatch

Sunday Life

Tanana Citizen

Tanana Daily Star



Tanana Leader

Tanana Miner

Tanana Miners Record

Tanana News

Tanana Teller

Tanana Tribune

Tanana Valley Socialist

Teller Advertiser

Teller News

Tolovana Prospector

Tri-Weekly Nome Industrial Worker

Truth (Cordova)

Truth (Valdez)

*Tundra Times

Valdez Breeze

Valdez Commoner

*Valdez-Copper Basin News

Valdez Daily Prospector

Valdez Miner

Valdez News

Valdez Newsletter

Valdez Settler

*Voice of Brotherhood

Weekly Alaska Dispatch

Weekly Alaska Prospector

Weekly Alaska Times

Weekly Mining Record

Weekly Nome Industrial Worker

Westward Alaskan

*Whitehorse Star

Whitehorse Tribune

Williwaws

Wrangell News

*Wrangell Sentinel

Yukon Daily Morning World

Yukon Midnight Sun

Yukon Press

Yukon Record

*Yukon Sentinel

Yukon Sun

Yukon Sun & Klondike Pioneer

Yukon Valley News

Yukon World

Yukon World and Official Gazette

This listing is based on Wickersham's bibliography and other sources, but is by no means exhaustive.

^{*} Newspapers with this symbol are being currently issued.

\$

BIBLIOGRAPHY

SOURCES CONSULTED

- Adams, Scott and Dale B. Baker. "Mission and Discipline Orientation in Scientific Abstracting and Indexing Services." <u>Library Trends</u>, 16, No. 2 (1967), 307-22.
- American Library Association. ALA Rules for Filing Catalog Cards. 2d ed., abridged. Chicago: 1968.
- Books: A MARC Format. MARC Manuals. 2d ed. Chicago: 1970.
 - Reference Service Division. A Guide to a Selection of Computer-Based Science and Technology Reference Services in the U.S.A. Chicago: 1969.
- Anderson, M. D. Book Indexing. Cambridge, England: University Press, 1971.
- Becker, Joseph. Trends in Library Technology. Paper given at 5th General Session of Special Libraries Association, 62d Annual Conference, San Francisco. New York: Special Libraries Association, 1971.
- Berry, Dorothea M. and Gordon P. Martin. A Guide to Writing Research
 Papers. New York: McGraw-Hill Book Co., 1971.
- Bloomfield, Masse. "Evaluation of Indexing." 5 parts. Special Libraries, 61 (1970), No. 8, 429-32, No. 9, 501-7, No. 10, 554-61; 62 (1971), No. 1, 24-31, No. 2, 94-99.
- Boehm, Eric H. The Cue System for Bibliography and Index. Bibliography and Reference Series, 7. Santa Barbara, Calif.: American Bibliography Center CLIO Press, 1967.
- Boldt, Roger. "A Planning Library, the Empirical Approach." Special Libraries, '62, No. 9 (1971), 335-39.
- Buckland, Lawrence F. The Recording of L.C. Bibliographic Data in Machine Form. Rev. ed. Washington, D.C.: Council on Library Resources, 1965.
- Case Western University. School of Library Science. A Selected Bibliography of Library and Information Science. Cleveland, Ohio: Center for Documentation and Communication Research, 1970.
- Collinson, Robert L. <u>Indexes and Indexing: Guide to the Indexing of Books, and Collections of Books, Periodicals, Music, Recordings, Films...3rd rev. ed. London: Ernest Benn Ltd.; New York: John De Graff, Inc., 1969.</u>



- Conference on Historical and Bibliographic Methods in Library Research,
 Urbana, Ill., 1970. Research Methods in Librarianship... Edited by
 Rolland E. Stevens. Urbana, Ill.: University of Illinois Graduate
 School of Library Science, 1971.
- Council on Library Resources. Recent Developments, CLR, No. 39. Washington, D.C.: 1972.
- Croghan, Antony. A Thesaurus-Classification for Physical Forms of Non-Book Media. London: 1970.
- Daily, Jay E. "The Selection, Processing, and Storage of Non-Print Materials: A Critique of the Anglo-American Cataloging Rules as They Relate to the Newer Media." <u>Library Trends</u>, 16, No. 2 (1967), 283-89.
- Engineering Index. SHE: Subject Headings for Engineering. New York:
- Conference on Federal Information Resources: Identification, Availability and Use, Washington, D.C., 1970. Proceedings. Sponsored by Committee on Scientific and Technical Information, Task Group on Library Programs and the Federal Library Committee. Washington, D.C.: 1970.
- Fenichel, Carol. Editing the Permuterm Subject Index. Philadelphia: Institute for Scientific Information, 1971.
- Fitch, Judith P. "Behaviorally Engineered Educational Environments: An Information System." Special Libraries, 61, No. 8 (1970), 445-53.
- Garvin, David. "The Information Analysis Center and the Library." Special Libraries, 62, No. 1 (1971), 17-23.
- Grosch, Audrey N. "Thesaurus Construction. a Small Collection of Non-scientific Reports." Special Libraries, 60, No. 2 (1969), 87-92.
- Harris, Jessica L. <u>Subject Analysis: Computer Implications of Rigorous Definition</u>. With a preface by Maurice F. Tauber and Theodore C. Hines. Metuchen, N.J.: Scarecrow Press, Inc., 1970.
- Hayes, Robert M. and Joseph Becker. Handbook of Data Processing for Libraries. New York: Wiley, Becker & Hayes, 1970.
- Heiliger, Edward M. and Paul B. Henderson, Jr. Library Automation:
 Experience, Methodology, and Technology of the Library As an Information System. New York: Mc-Graw Hill Book Co., 1971.
- Hines, Theodore C. and Jessica L. Harris. Computer Filing of Index,
 Bibliographic, and Catalog Entries. Newark, N.J.: Bro-Dart Foundation, 1966.
- Hogenauer, Alan K. "An Aviation Firm Catalogs Its Special Collection."



Special Libraries, 62, No. 5/6 (1971), 234-37.

(, , X

- Huang, Theodore S. "Efficacy of Citation Indexing in Reference Retrieval." Library Resources & Technical Services, 12, No. 4.(1968); 415-20.
- Immroth, John P. Analysis of Vocabulary Control in L. E. Classification and Subject Headings. Littleton, Colorado: Libraries Unlimited, Inc., 1971.
- Kilgour, Frederick G. "Computerization: The Advent of Humanization in the College Library." Library Trends, 18, No. 1 (1969), 29-36.
- King, Gilbert W., et al. <u>Automation and the Library of Congress</u>... Washington, D.C.: Govt. Print. Off., 1964.
- Klempner, Irving M. Diffusion of Abstracting and Indexing Services for Government-Sponsored Research. Metuchen, N.J.: Scarecrow Press, Inc., 1968.
- Lancaster, F. W. "Commentary on Evaluation of Indexing." Special Libraries, 62, No. 10 (1970), 439-41.
- Inc., 1968. New York: John Wiley & Sons,
- The Larc Association. A Survey of Automated Activities in the Libraries of the U.S. and Canada. Compiled by Frank S. Patrinostro & Debra New. 2d ed. Tempe, Arizona: 1971.
- Licklider, J. C. R. <u>Libraries of the Future</u>. Cambridge, Mass.: M.I.T. Press, 1965.
- Line, M. B. "On the Design of Information Systems for Human Beings."

 ASLIB Proceedings 22, No. 7 (1970), 320-335. Reprinted by William Katz and Joel J. Schwartz, Library Literature The Best of 1970, Metuchen, N.J.: Scarecrow Press, 1971.
- Mankato State College. Memorial Library. Film Catalog. 1971-72. Mankato, Minn.: 1971.
- National Union Catalog of Manuscript Collections. Washington, D.C.: Library of Congress, 1962-
- New York Times. Thesaurus of Descriptors... 2 vol., 3d ed. New York: 1971.
- Riddle, Jean. Non-Book Materials, the Organization of Integrated Collections. Ottawa, Canada: Canadian Library Association, 1970.
- Robinson, A. M. Lewin. Systematic Bibliography. Rev. ed. Hamden, Conn.: Archon Books, 1966.

ERIC Full Text Provided by ERIC

الإثسا

3

- Sears, Minnie E. <u>List of Subject Headings</u>. With suggestions for the beginner in subject heading work, by Bertha M. Frick. Edited by Bertha M. Westby. 9th ed. New York: H.W.Wilson Co., 1965.
- "Semiannual Report on Developments at the Library of Congress, June 1972."

 <u>Library of Congress Information Bulletin</u>, 31, No. 25 (1972), A-83.
- Smith, E. M. Arctic Bibliography. Canadian Library Association Occasional Paper, 79. Ottawa, Canada: Canadian Library Association, 1970.
- Special Libraries Association. Documentation Group, Washington, D.C. Chapter. <u>Initiating a Library Automated Program</u>. Papers presented at the 1965-66 meetings. Washington, D.C.: 1966.
- Stevens, Norman D. "MEDLARS: A Summary, Review and Evaluation of Three Reports." <u>Library Resources & Technical Services</u>, 14, No. 1 (1970), 109-21.
- U.S. Department of Defense. Thesaurus of Engineering and Scientific
 Terms. Prepared for the Department by Naval Research Office Project
 LEX in joint operation with Engineers Joint Council. AD 672 000.
 Washington, D.C.: 1967.
- _U.S. Department of the Interior. Water Resources Research Office. Water Resources Thesaurus. Washington, D.C.: 1966.
- U.S. Educational Resources Information Center. Thesaurus of ERIC Descriptors. New York: CCM Information Corp., 1970.
 - U.S. Federal Council for Science and Technology. <u>COSATI Subject Category List</u>. Washington, D.C.: 1964. Reproduced by National Technical Information Service, Springfield, Va., 1964. AD 612200, PB 166877.
 - U.S. Library of Congress. Reference Department. Bibliographical Procedures and Style, a Manual for Bibliographers in the Library of Congress. By Blanche P. McCrum and Helen D. Jones. Washington, D.C.: 1954. Reprinted with a list of abbreviations, 1966.
 - Subject Cataloging Division. Subject Headings Used in the Dictionary Catalogs of the Library of Congress. 7th ed. Washington, D.C.: 1966.
 - Wickersham, James. A Bibliography of Alaskan Literature 1724-1924. Miscellaneous Publications of the Alaska Agricultural College and School of Mines, 1. Cordova, Alaska: Cordova Daily Times Print, 1927.
 - York, Edwin G. "An Alerting Service Without a Computer A KWOK Index Produced by Conventional Means." Special Libraries, 61, No. 8 (1970), 441-44.

ERIC Full Text Provided by ERIC

INDEXES AND PERIODICALS CITED

- Abstracts of North American Geology. Washington, D.C.: U.S. Geological Survey, 1966-
- Alaska. Vol. 1, 1935- Anchorage, Ak.: Northwest Publishing Co., 1935- (Formerly Alaska Sportsman)
- Applied Science and Technology Index. 1926-27— New York: H.W. Wilson
- Arctic Institute of North America. Arctic Bibliography. Vol. 1-Montreal and London: McGill-Queen's University Press, 1953— (Vol. 1-13 published by U.S. Department of Defense)
- Art Index. Vol. 1, 1929-32- New York: H.W.Wilson Co., 1933-
- Biological Abstracts. Vol. 1, 1926-27— Philadelphia: Biosciences Information Service of Biological Abstracts, 1927—
- Business Periodicals Index. 1958-59— New York: H.W. Wilson Co.,
- Canadian Periodicals Index. Vol. 23, 1970— Ottawa, Canada: Canadian Library Association, 1971—
- Education Index. Vol. 7, 1947-50— New York: H.W. Wilson Co., 1950—
- Engineering Index. 1928-29- New York: Engineering Index, Inc., 1930-
- Index Medicus. Washington, D.C.: National Library of Medicine, 1960-
- Index to Legal Periodicals. Vol. 10, 1952-55- New York: H.W. Wilson
- New York Times Index. New York: New York Times, 1926-
- Readers' Guide to Periodical Literature. Vol. 7, 1925-28- New York:
- Science. Vol. 63, 1926— New Series. Lancaster, Pa.: American Association for the Advancement of Science, 1926—
- Social Sciences and Humanities Index. Vol. 4, 1924-27— New York: H.W. Wilson Co., 1929—
- U.S. Atomic Energy Commission. <u>Nuclear Science Abstracts</u>. Washington, D.C.: Govt. Print. Off., 1948.
- U.S. Congress. Congressional Record Index. Vol. 67, 1926— Washington, D.C.: Govt. Print. Off., 1926—



- U.S. Educational Resources Information Center. Research in Education.
 Vol. 1, 1966 Washington, D.C.: Govt. Print Off., 1966-
- U.S. National Agricultural Library. Bibliography of Agriculture. Vol. 3, 1943— Washington, D.C.: Govt. Print. Off., 1943—
- U.S. National Information Services. <u>Government Reports Index</u>. Vol. 1, 1965— Springfield, Va.: 1965—
- U.S. Superintendent of Documents. <u>Catalogue of the Public Documents of Congress and of All Departments of the United States</u>. Vol. 18, 1925-26— Vol. 25, 1939-40. Washington, D.C.: Govt. Print. Off., 1932-1944.
- Monthly Catalog of United States Government Publications. Washington, D.C.: Govt. Print. Off., 1935—

The following work is separately listed because of its especial value as a very important bibliographic tool and because it is a prime example of what can be accomplished through a fine degree of understanding and coopertion between information specialists and the computer programmer.

Lester, Daniel W. and Marilyn A. Lester. <u>Checklist of United States Public Documents</u>, 1789-1970. 5 vol. Washington, D.C.: United States Historical Documents Institute, 1972.

"A dual media edition of the U.S. Superintendent of Documents' Public Documents Library shelf lists with accompanying indexes."

Vol. 4 is compiled by the staff of the United States Historical Documents Institute.

This work will be updated by annual supplements.

PART II PRINTOUT OF SAMPLE BIBLIOGRAPHY AŅD INDEXES



PRINTOUT OF SAMPLE BIBLIOGRAPHY

AND INDEXES

The following copy of the computer printout developed by this pilot study consists of three parts. The first is the basic bibliography or source register index to Informational Resources on Alaska. It concains the identifying information for each of the 106 items indexed. The main and additional author entries therein are numbered in alphabetic sequence so that this part serves also as the author-issuing body index. The second and third parts are the title index and the subject descriptor index, respectively. The entries in these last two indexes, as well as the added author and issuing body entries (given in the source register), refer the user to the full information for each item indexed by giving in parentheses the entry number under which it can be found in the first part, the source register. For instance, the first entry in the title index is "AGRICULTURE HANDBOOK 5", published in 1950 and described in entry 000066. In the subject descriptor index under "TREES" the same reference is cited. Again, under the name "LITTLE" in the first part, the reference is repeated. Thus, the user can locate information in the source register when he knows the author, co-author, title, or subject of the item indexed.

It will be noted that all letters are in upper case because of the computer used, that punctuation is used only when necessary for clarity or for programming, and that words are truncated or abbreviated. Filing by computer, alphabetically from left to right with every space or letter



considered, has made it necessary to allow arbitrary abbreviating or truncating only with space 25 and following. Certain abbreviations have been allowed for all except initial words, except in the case of U S, in the spaces through 24 in the main, added author, title and descriptor entries. These are as follows:

ADMIN	ADMINISTRATION	EXP	EXPERIMENT
ADVIS	ADVISORY	heár	HEARING
AK	ALASKA ~	MISC	MISCELLANEOUS
BULL	BULLETIN	OFF	OFFICE_
BUR	BUREAU	PROF	PROFESSIONAL
CO	COMPANY	PUB	PUBLICATION
COM	COMMITTEE	SER	SERIES
C ONF	CONFERENCE	STA	STATION
DEPT	DEPARTMENT	US	UNITED STATES

The following abbreviations are used to identify the periodicals from which articles have been indexed:

AKJ	ALASKA JOURNAL
CMFR	COMMERCIAL FISHERIES REVIEW
CONR	CONGRESSIONAL RECORD
EQUIB	EARTHQUAKE INFORMATION BULLETIN
HOBB	HOBBIES
SMSI	SMOKE SÍGNALS
WAIN	WAINWRITER
WELV	WELFARE IN REVIEW

It is envisioned that this printout will be photographically reduced before copies of the completed index are produced for distribution. Not only will this cut down on the number of pages, but it should also trim a sizable amount from the \$35,000 estimate for producing 250 copies.

INFORMATION RESOURCES ON ALASKA SOURCE REGISTER



INFORMATION-RESOURCES ON

ALASKA

SOURCE REGISTER

		-
000001	ABERCROMBIE, WILLIAM R 1857-	
	ALASKA 1898 COPPER RIVER EXPLORING EXPED. MILITARY RECORD	
su.º¹	COPPER RIVER VALLEY. 1899 MAP P561-626 (000083)	
	AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 A1	1899
000002	MUCHONOLOTE ALCETAN V 1071-	
-	ALASKA 1899 COPPER RIVER EXPLORING EXPED. 1899 P755-825 (000083)	
	AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 A1	1899
900003	ABERCROMBIE, WILLIAM R 1857-	
	REPORT OF SUPPLEMENTARY EXPED INTO COPPER RIVER VALLEY	
	1884 - P381-408 (000093)	1884
	AKU-ŞKÑR/F904/U58 AKU-DOC/Y4.M59/2 AI	
	ALASKA COMMERCIAL CUMPANY, SAN FRANCISCO (000047)	
* >***	ALASKA DEVELOPMENT BOARD (000076)	
000004	ALASKA EARTHQUAKE	
-	ALASKA EARTHQUAKE (MOTION PICTURE). PROD BY U S GEOL SUR	_
	1966 DIST BY U.S. NATE AUDIO VIS CENTER WASH, 20MIN SD COL	• .
· ·	16MM GOOD FRIDAY EARTHQUAKE 1964 AND EFFECTS AKU-AV/UF382	1966
900005	AB A CWA TOTOMAT	
300003	THE TOTAL COSTUNE	
	ALASKA JOURNAL. HISTORY AND ARTS OF THE NORTH VI- JUNEAU AK NORTHWEST PUB CO 1971- V IL(PART COL) Q	
	AKU-SKNR/F901/A342	971-
	ALACKA A TOO AND A COLOR OF A	
•	ALASKA LIBRARY ASSOCIATION SEE ALSO ALASKA STATE LIB ASS	N
	ALASKA NATURAL RESOURCES DEPT (000092)	
000006	ALASKA POWER ADMIN -	
	BIBLIOGRAPHY AND HISTORICAL NOTES 1946-1968. UPPER YUKON	01450
	STUDY CANADA-UNITED STATES. JUNEAU 1969 8 29P	1969
	- AKU-SKNR/Z5834/P7A4	1707
000007	ALASKA STATE LİBRARY ASSN	
	- CACHE DE: ALASKA DEADING CHROENTLY IN DOINE STORES	

ALASKA STEAMSHIP CO (000076)

AKU-SKNR/VF

ALASKAY TRANSPURTATION CO (000076)

000006 ALASKA WATER LABORATORY, COLLEGE EFFECTS OF PLACER MINING ON WATER QUALITY IN AK. FEDERAL WATER

FICTION FOR ALL AGES. ANCHORAGE 1967 FOLDER IL

1967

ERIC

Full Text Provided by ERIC

POLLUTION CONTROL ADMIN NORTHWEST REGION. WASH GPG 1969 91P IL /

AKU-SKNR/TN421/A42

1969

ALASKA WATER LABORATORY, COLLEGE (000023)

ALASKA WATER LABORATORY, COLLEGE (000024)

000009 ALLEN, HENRY T 1859-1930

REPORT OF MILITARY RECON IN AK MADE IN 1885. 1886 PLATES. MAPS P409-494 (000083) 1886

AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 A1

000010 BAKER, MARCUS 1849-1903

GEOGRAPHIC DICTIONARY OF AK. PREPARED BY JAMES MCCORMICK 2D ED WASH GPO 1906 690P (U S GEOLOGICAL SURVEY BULL 299)

GEOLOGICAL SURVEY SER F GEOG 521

1906

AKU-DOC/119.3 299

000011 BARTLETT, EDWARD L (808) 1904-1968

LIBRARIES ARE VITAL TO AK LIFE. CONR 109/10281-2 JE6 63

AKU-DOC/X88/1 109PT8

AKU-DOC/A13.78 NOR-1

BEATTY, WILLARD W (000050)

000012 BEACH, REX E 1877-1949

IRON TRAIL. AN ALASKAN ROMANCE. GARDEN CETY N Y DOLPHIN 1965

AKJU/PS3503/E1135/17/1965

1965

BERKH, VASILII N 1781-1834 (000059)

BERRY, EDWARD C (000023)

000013 BISHOP, DANIEL M

LANDSLIDES ON LOGGED AREAS IN SOUTHEAST AK. BY DANIEL M BISHOP AND MERVIN E STEVENS NORTHERN FOR EXP STA

JUNEAU 1964 18P IL

(U S FOREST SERVICE RESEARCH PAPER NOR-1) AKU-SKNR/SD144/A4U54/NO1

1964

BOJANICH, GEORGE 1890-1967 000014

ONE STRING VIOLIN (REALIA). VIOLIN AND BOW HAND CARVED BIRCH AND STRUNG WITH HORSEHAIR AROUND 1925. APPROX 30 X 8 IN WITH BOWL DEPTH OF 3 IN AND BOW 17 IN LONG

PM 68-33

1963

~000015 BONES, JAMES T

WOOD PROCESSING IN ALASKA 1961. NORTHERN FOR EXP STA

JUNEAU 1963 14P IL

FOREST SERVICE RESOURCE BULL NOR-1) (U S

AKU-SKNR/TS801/U53/NOI AKU-DOC/A13.80 NOR-1

000016 CHILDERS, JOSEPH M

FLOOD OF AUGUST 1967 AT FBKS AK (MAP). BY JOSEPH CHILDERS AND' JAMES P MECKEL. WASH U S GEOL SUR 1967 PART COL FOLD

39 X 41 IN WITH TEXT

(HYDROLOGIC	INVESTIGATIONS	ATLAS HA-294
AKU-MAPS		11.01.0

1967

O00017 COMMERCIAL FISHERIES REVIEW
SECRETARY STANS REPORTS FAVORABLY ON SEAL HARVESTING. IN
PRIBILOF ISLANDS. CMFR 33 1-2 JE 71

1971

AKU-DOC/C55.310 33/6

COOPERATIVE AGRIC EXT SVCE, UNIV OF AK COLLEGE (000032)

O00018 DAVIS, EDWARD W (EDBY)
CHENA (TOWN) (PHONOTAPE). RECORDED BY TANANA YUKON HIST SOC
FAIRBANKS 022 1970 1 S 55MIN 1 7/81PS, MONO SINGLE TRACK 1970
AKU-ARCH

O00019 DAVIS, EDWARD W (EDBY)

COLLECTED PAPERS 1914-1965. CONSISTS OF DIARIES MANUSCRIPTS
CORRESPONDENCE PHOTOS ETC. FBKS AREA DONATED AKU ARCHIVES 1971
13+ ARCH BOXES
AKU-ARCH

O00020 DEVELOPMENT AND RESOURCES CORP NEW YORK

MARKET FOR RAMPART POWER YUKON RIVER AK. FINAL RPT OF DEVELOP
MENT AND RESOURCES CORP TO PUBLIC WORKS COM SENATE 8/7-2. WASH

GPO 1962 166P IL MAPS COM PRINT

AKU-SKNR7HD9685/U6A474. AKU-DOC/Y4.P96/10 R14

GOOO21 DOUMANI, GEORGE A
FEDERAL ARCTIC RESEARCH. PREPARED FOR SENATE APPROPRIATIONS
COM LEG REF SVCE LIB CONG. WASH GPO 1968 IL MAPS
(U S CONG SENATE DOC 90-2 NO 71)
AKU-SKNR/Q180/A57D6
AKU-DOC/90-2 S DOC71

FAIRBANKS NATIVE COMMUNITY CENTER (000060)

000022 FELDMAN, FRANCE L
REACHING RURAL ALASKAN NATIVES. THROUGH HUMAN SVCES AIDES.
WELR 9 9-14 MY-JE 71

AKU-DOC/HE17.9 9/3

FREEMAN, T G {000101}

O00023 FREY, PAUL J
CHENA RIVER STUDY OF SUBARCTIC STREAM. BY PAUL J FREY
ERNST W MUELLER EDWARD C BERRY. AK WATER LAB. COLLEGE. FEDERAL
WATER QUALITY_ADMIN NORTHWEST REGION. WASH GPO 1970 96P IL
MAPS
AKU-SKNR/GB1227/C48F7

..000024 FREY, PAUL J
ECOLOGICAL CHANGES IN CHENA RIVER. AK WATER LAB FED WATER
POLLUTION CONTROL ADMIN NORTHWEST REGION. COLLEGE AK WATER T
LAB 1969 46P IL
AKU-SKNR/GB1227/C48F72

O00025 GLENN, EDWIN F 1857-1926 ALASKA 1898 TANANA RIVER EXPLORING EXPED. TRIP TO REGION OF

RIC
Text Provided by ERIC

TANANA. 1899 P627-709 (000083) AKU-SKNR/F904/U58

AKU-DOC/Y4.M59/2 A1

1899

000026 GLENN, EDWIN F 1857-1926
ALASKA 1299 COOKS INLET EXPLORING EXPED. EXPLORATIONS IN AND
ABOUT COOKS INLET. 1899 P711-741 (000083)
AKU-SKNR/F904/U58
AKU-DOC/Y4.M59/2 A1

GRAHAM, ROBERT E (000071)

O00027 GRANTZ, ARTHUR
ALASKA'S GOOD FRIDAY EARTHQUAKE MR 27 1964. PRELIMINARY
GEOLOGIC EVALUATION BY ARTHUR GRANTZ, GEORGE PLAFKER AND
REUBEN KACHADOORIAN. WASH GPO 1964 35P IL MAPS
(U S GEOLOGICAL SURVEY CIRC 491)
AKU-SKNR/QE535/G67 AKU-SKNR/I19.4/2 491

1964

1.

GRUENING, ERNEST H (000092)

O00028 GUSTAFSON, D O (MRS)
WILL ROGERS AND WILEY POST (PHOTOGRAPH). INCL ALSO JOE
CROSSON AND JOHN GUSTAFSON TAKEN BEFORE POLAR FLIGHT. FAIR—
BANKS 1935 10 X 8 IN BGW
PM68-55

O00029 HADWEN, ISAAC SEYMOUR
REINDEER IN ALASKA. BY ISAAC SEYMOUR HADWEN AND LAWRENCE J
PALMER. WASH GPO 1922 74P IL
(U S AGRICULTURE DEPT BULL 1089)
CONTRIBUTION FROM BIOLOGICAL SURVEY BUR
AKU-SKNR/SF401/R3H3
AKU-DOC/A1.3 1089

000030 HAMPTON, ANNE
COME TO ALASKA. BY ANNE HAMPTON AND SHARON METZGER IL WAIN 11
3-5+ NY 72
RUST*S COPY EXAMINED

HARTMAN, WILBUR L (000096)

HASKELL INSTITUTE: LAWRENCE KA (000050)

HEGG, ERIC A (000039)

O00031 HEGG, KARL M
FOREST RESOURCES OF SUSITNA VALLEY AK. INSTITUTE OF NORTHERN
FORESTRY, U.S. PACIFIC NORTHWEST FOR AND RANGE EXP STA.
JUNEAU 1970 42P IL MAPS
(U.S. FOREST SERVICE RESOURCE BULL PNW 32)
AKU-SKNR/SD12/A4H4
AKU-DOC/A13.80 PNW 32

O00032 HELLER, CHRISTINE A

EDIBLE AND POISONOUS PLANTS OF AK. COLLEGE COOP AGRIC EXT

SVCE UNIV OF AK 1953 167P IL

AKU-SKNR/QK98.5/H36

000033 HERNING, ORVILLE G MAP OF CENTRAL ALASKA (MAP). SHOWING GOLD FIELDS, TRAILS

ERIC

Full Text Provided by ERIC

BOAT ROUTES. ETC COMP FROM PROSPECTORS AND NATIVE SKETCH MAPS. SEATTLE SHOREY 1970 FULD MAP 36 X 20 IN. REPRINT COVER TITLE 1906 PROSPECTORS MAP OF CENTRAL AK PRIVATE COLL

HICKEY, JOHN L (000106)

HILCHER, HERBERT H (000059)

000034 HOWARD, OLIVER O

REPORT OF VISIT TO ALASKA IN JUNE 1875. 1876

P43-52 (000083) AKU-SKNR/F904/U58

AKU-DOC/Y4.M59/2 A1

1876

JENKINS, MICHAEL R 000035

TRADE BEADS IN ALASKA. AKJ 2 31-9 SUM 72 COL IL. AKU-SKNR/F901/A342

1972

000036 JENNESS. DIAMOND

> ESKIMO STRING FIGURES (MICROFILM CARDS). RPT OF CAN ARCTIC EXPED 1913-18 V13 PT B. OTTAWA F A ACEAND 1924 PP192 IL MAP CHART. HRAF 1924

AKU-HRAF/ND8/111/4

KHLEKNIKOV, KIRIL SEE KHLIEKNIKOVO KIRIL T

KHLIEKNIKOV, KIRIL T 1776-1832 (000059)

LITTLE, ELBERT L (000066)

MCCORMICK, JAMES (000010)

000037 MANVILLE, RICHARD H

DISTRIBUTION OF ALASKAN MAMMALS. BY RICHARD H MANVILLE AND STANLEY P YOUNG SPORT FISHERIES AND WILDLIFE BUR.

WASH GPO 1965 74P

(U.S. SPORT FISHERIES AND WILDLIFE BUR CIRC 211) AKU-SKNR/OL719/A4M3

AKU-DOC/149.4 211_

1965

MECKEL, JAMES P (000016)

METZGER, SHARON (0000030)

000038 MILES, CHARLES

> INDIAN TOOLS AND MISCELLANEOUS. IL HOBB 74 142-3+ D*69

(INDIAN RELICS PT1) AKU-PER/AM201/H6

1969

000039 MORGAN, MURRAY C

ONE MAN'S GOLD RUSH. A KLONDIKE ALBUM PHOTOGRAPHS BY E A HEGG. SEATTLE UNIV OF WASH 1967 213P IL

AKU-SKNR/F909/M82

MUELLER, ERNST W (000023)

000040 MUNOZ, RIE

ALASKA CHRISTÍAN CONF MURAL ON AK MISSIONARIES (PAINTING).

CUMMISSIONED BY ELMER AND MARY RASMUSON. 1967 3 PANELS 6 X 4 FT EACH. 13 SCENES 1967 AKU-EXHIBIT

000041 MURIE, ADDLPH
WOLVES OF MOUNT MCKINLEY. NATIONAL PARK SVCE. WASH GPO 1944
238P IL MAP (FAUNA SER 5)
AKU-SKNR/QL737/C2M9
AKU-DOCKI29.13 5

O00042 MURIE, MARGARET E
TWO IN FAR NORTH. IL BY OLAUS J MURIE. NEW YORK KNOPF 1962
438P IL AUTOBIOGRAPHICAL
AKU-SKNR/F909/M94

O00043 MURIE, OLAUS J 1889-1963
FAUNA OF ALEUTIAN ISLANDS AND AK PENINSULA. BY OLAUS J MURIE
WITH INVERTEBRATES AND FISHES COLLECTED IN ALEUTIANS 1936-38
BY VICTOR B SCHEFFER. WASH GPO 1959 406P IL.
(NORTH AMERICA FAUNA SER 61)

AKU-DOC/149.30 61

NORTHERN COMMERCIAL CO

SEE ALSO ALASKA COMMERCIAL CO

NORTHERN FOREST EXP STA

SEE U S NORTHERN FOREST EXP STA

NORTHLAND TRANSPORTATION CO (000076)

000044 NOSTE, NONAN V
ANALYSIS AND SUMMARY OF FOREST FIRES IN COASTAL AK. INSTITUTE
OF NORTHERN FORESTRY JUNEAU. PACIFIC NORTHWEST FOR AND RANGE
EXP STA. WASH GPO 1969 12P MAP CHARTS
1969
AKU-SKNR/SD421/N6
AKU-DOC/A13.66/2 AL1S/5

NOSTE, NONAN V (000069)

O00045 ORTH, DONALD J
- DICTIONARY OF ALASKA PLACE NAMES. WASH GPO 1971 1084P IL MAPS
(PART COL) (U)S GEOLOGICAL SURVEY PROF PAPER 567) 1967
AKU-SKNR/F902/07 AKU-DOC/I19.16 567

OOGO46 ORTH, DONALD J
DICTIONARY OF ALASKA PLACE NAMES, WASH GPO 1971 1084P IL MAPS
(PART COL) (U S GEOLOGICAL SURVEY PROF PAPER 567) REPRINTED
WITH MINOR REVISIONS
1971
AKU-SKNR/F902/07/1971 AKU-DOC/I19.16 567/971

O00047 OSWALT, WENDELL H

ALASKA COMMERCIAL COMPANY RECORDS 1868-1911 REGISTER. COLLEGE
UNIV OF AK LIBRARY 1967 30L 2PHOTOS PUB SUPPORTED BY NORTHERN
COMMERCIAL CO
AKU-SKNR/F912/P908

PAGE, WILLIAM B (.000106)

000048 PALMER, LAWRENCE J
RAISING REINDEER IN ALASKA. WASH GPO 1934 41P IL
LU S AGRICULTURE DEPT MISC PUB 207) SUPERCEDES CIRCULAR NO82,

ERIC

IMPROVED REINDEER HANDLING. CONTRUBUTION FROM BIOLOGICAL SURVEY BUR

AKU-SKNR/SF401/R4P17 AKU-DOC/A1.38 207

PALMER, LAWRENCE J (000029) -

000049 PARNELL, PENNY

ALASKA STOUGH OLD-TIMERS LOOK BACK AT EARTHQUAKES. EQIB. 2 9-13 N-D 70 1970

AKU-DOC/C55.410 2/6

AKU-DOC/I1.84/4 2

000050 PAUL, FRANCES

SPRUCE ROOT BASKETRY OF AK TLINGET. BY FRANCES PAUL ED BY WILLARD W BEATTY. INDIAN AFFAIRS BUR. LAWRENCE KA HASKELL INSTITUTE 1944 80P IL. (INDIAN HANDCRAFT BOOKS) 1944 AKU-SKNR/E98/B3P3/1944

PETROF, IVAN SEE PETROV, IVAN

000051 PETROV, IVAN 1842-REPORT ON POPULATION, RESOURCES, ETC OF AK. 1881 IL FROM U S CENSUS RPT OF 1880 P53-281 (000083) AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 A1

000052 RAMPART ECONOMIC ADVIS BOARD CONFERENCE PROCEEDINGS. 1ST-3D. ANCHORAGE AND PORTLAND ORE 1961-1962 3V AKU-SKNR/HD1695/R2U5 AKU-DUC/D103.2 R17

1962

1934

000053 %AY, DUROTHY J GRAPHIC ARTS OF ALASKAN ESKIMO. INDIAN ARTS AND CRAFTS BOARD. WASH GPO 1969 87P IL (NATIVE AMERICAN ARTS 2) 1969 AKU-SKNR/E99/E7R3

RAY, PATRICK H 000054 1842-1911 ALASKA 1884 INTERNATIONAL POLAR EXPED TO PT BARROW. 1885 IL MAP P363-680 (000083) 1885 AKU[®]SKNR/F904/U58 AKU-DOC/Y4.M59/2 ALI

000055 RAY, PATRICK H 1842-1911 ALASKA 1897 RELIEF OF DESTITUTE IN GOLD FIELDS. BY P H RAY AND RPT OF EXPED INTO AK BY W P RICHARDSON. 1898-P495-507 (000083) 1898 AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 A1

000056 RAY, PATRICK H 1842-1911 ALASKA 1898 RELIEF OF DESTITUTE IN YUKON REGION. SUFFERING AND DESTITUTE MINERS IN AK AND WHAT WAS DONE FOR THEIR RELIEF. BY P H RAY AND W R RICHARDSON. 1898 P517-560 (000083) AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 AL1

000057 RAYMOND, CHARLES W- 1842-1913 RECONNAISSANCE OF YUKON RIVER 1869. FIRST RECON OF YUKON RIVER 1871 P17-41 (000083) 1871 AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 AL1

000058 PICHARDSON, WILDS P

ALASKA 1899 YUKON RIVER EXPLORING EXPED. MIGHTY YUKON AS SEEN AND EXPLORED. 1899 P743-753 (000083) 1899 AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 AL1

RICHARDSON, WILDS P (000055)

RICHARDSON, WILDS P. (000056)

000059 RICKS, MELVIN R 1896-1964 EARLIEST HISTORY OF ALASKA. ANCHORAGE COOK INLET HIST SOC 1970 33 41 65 L FRONT MAPS LIMITED ED. TRANS FROM RUS SHELEKHOV'S VOYAGE TO AK 1-793, BERKH'S HIST OF ALEUT ISLANDS 1823, KHLEBNIKOV S LÍFE OF BARANOV 1835 1970 AKU-SKNR/F907/R5/1970

000060 RIVER TIMES RIVER TIMES. PUB BY FAIRBANKS NATIVE COMMUNITY CENTER. V1/1- . FAIRBANKS 1970-IL M NEWSPAPER AKU-NEWS

> SCHEFFER, VICTOR B (000043)

000061 SCHWATKA, FREDERICK 1849-1892 REPORT OF MILITARY RECON MADE IN AK IN 1883. 1885 I'L INCLUDE 20 FOLD MAPS TEXT OF OFFICIAL RPT P283-362 (000083) AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 AL1

000062 SCHWATKA, FREDERICK 1849-1892 REPORT OF MILITARY RECON MADE IN AK IN 1883. WASH GPO 1885 121P IL INCLUDE 20 FOLD MAPS (U S CONG SENATE EX DOC 48-2 NO2) OFFICIAL MILITARY RPT AKU-SKNR/F908/S42 AKU-DOC/W1.2 AL1/3

1885

SHANK, MICHAEL L (000106)

SHANNON AND WILSON INC SEATTLE 000063 REPORT ON ANCHORAGE AREA SOIL STUDIES. TO U.S. ARMY ENG DIST ANCHORAGE AK UNDER CONTRACT DA-95-507-CIVENG-64-18(NEG). SEATTLE 1964 IV I'L 1964

AKU-DOC/D103.2 432-A

SHELEKHOV, GRIGORII I 1747-1795 (000059)

000064 SMOKE SIGNALS ALASKA. IL SMSI 50-51 3-26 FALL-WIN 66 1966 AKU-SKNR/E98A756 AKU-DOC/I1.84/2 50-51

> STEVENS, MERVIN E (000013)

TANANA YUKON HISTORICAL SOCIETY, FBKS (000018)

TAYLOR, RAYMOND F 000065 POCKET GUIDE TO ALASKA TREES. FOR SVCE, AK. WASH GPO 1929 39P IL MAP (U S AGRICULTURE DEPT MISC PUB 55) 1929 AKU-DOC/A1.38 55

000066 TAYLOR, RAYMOND F POCKET GUIDE TO ALASKA TREES. BY RAYMOND F TAYLOR AND ELBERT L LITTLE JR FOREST SVCE. WASH GPO 1950 63P IL MAP (AGRICULTURE HANDBOOK 5) REV OF MISC PUB 55 AKU-SKNR/QK484/A4T3 AKU-DOC/A1.76 5

- O00067 THOMAS, BRUCE I
 PLACER MINING IN ALASKA. METHODS AND COST AT OPERATIONS USING HYDRAULIC AND MECHANICAL EXCAVATION EQUIPMENT WITH NUMFLOATING WASHING PLANTS. BY BRUCE I THOMAS AND OTHERS. WASH GPO 1959
 39P IL (U S MINES BUREAU INFO, CIRC 7926)
 AKU-SKNR/TN23/U71/NO 7926 AKU-SKNR/I28.27 7926
- O00068 THOUGH EARTH BE MOVED
 THOUGH EARTH BE MOVED (MOTION PICTURE). PROD BY U S CIVIL
 DEFENSE DEF DIST BY U S NATL ADUIO VIS CENTER. WASH 1965 45
 MIN SD B&W 16MM GOOD FRIDAY EARTHQUAKE 1964 AND EFFECTS 1965
 AKU-AV/UF949
- O00069 TRIGG, WILLIAM M
 SUMMARY AND ANALYSIS OF FIRE DANLER INDEXES. FOR SELECTED
 COASTAL AK STATIONS. BY WILLIAM M TRIGG AND MONAN V MOSTE
 INSTITUTE OF NORTHERN FORESTRY JUNEAU. PACIFIC NORTHWEST FOR
 AND RANGE EXP STA. WASH GPO 1969 21P IL MAP
 1969
 AKU-DOC/A13.66/2 ALIS/3

TRUMAN, HARRY S (000100)

- U S ADJUTANT GENERAL'S DEPT (000083)
- U S ADJUTANT GENERAL'S OFF (000062)
- US ARCTIC HEALTH RESEARCH CENTER ANCH (000106)
- U.S. ARMY ENGINEER CORPS SEE ALSO U.S. ENGINEER DEPT
- U, S ARMY ENGINEER CORPS (000052)
- O00070 U.S. ARMY ENGINEER CORPS ANCH DIST
 FAIRBANKS FLOOD CONTROL. REVIEW OF RPTS ON TANANA RIVER BASIN.
 ANCHORAGE 1967 IV IL MAPS ENGINEER REPORTS
 AKU-SKNR/TC125/F2U5
 AKU-DOC/D103.22 F18
 - U S ARMY ENGINEER CORPS ANCH DIST (000063)
 - U S BIOLOGICAL SURVEY BUR (000029)
 - U-S BIOLOGICAL SURVEY BUR (000048)
- 000071 U S BUSINESS ECONOMICS OFF
 INCOME IN ALASKA. SUPPLEMENT TO SURVEY OF CURRENT BUSINESS BY
 ROBERT E GRAHAM JR. WASH GPO 1960 35P IL 1960
 AKU-SKNR/HC107/A45A42 AKU-DOC/C43.8/3 115
 - U S CENSUS OFF (000051)
 - U S CIVIL DEFENSE OFF (000068)
 - U -COAST AND GEODETIC SURVEY (000103)

- O00072 U S CONG HOUSE INTERIOR AND INSULAR AFFAIRS COM
 ALASKA' 1955. HEAR BEFORE TERRITORIAL AND INSULAR AFFAIRS
 SUBCOM HOUSE PURSUANT TO HRES30. HELD AT VARIOUS PLACES IN AK
 S14-06 1955. WASH GPO 5PTS SERIAL NO 27
 AKU-SKNR/HC107/A45A4/1955 AKU-DOC/Y4.IN8/14 84/27
- 000073 U.S. CONG. HOUSE INTERIOR AND INSULAR AFFAIRS COM.
 ALASKA OMNIBUS BILL. HEAR BEFORE SUBCOM HOUSE 86-1 ON HR6091
 HR6109 HR6112 MY4-5 1959. WASH GPO 81P SERIAL NO 6. 1959
 AKU-SKNR/JK9525/1959/A47. AKU-DOC/Y4.IN8/14 86/6
- 000074 U S CONG HOUSE INTERIOR AND INSULAR AFFAIRS COM STATEHOOD FOR ALASKA. HEAR BEFORE TERRITORIAL AND INSULAR SUBCOM HOUSE 80-1 ON HR206 HR1808 AP16-24 1947. WASH GPO 451P MAP COM HEAR 80-1 NO 9 AKU-SKNR/JK9525/1947/A4 AKU-DOC/Y4.P96/2 80-1/9
- 000075 U S CONG HOUSE INTERSTATE AND FOREIGN COMMERCE COM
 TRANSPORTATION IN ALASKA. WASH GPU 1948 49P (U S CONG HOUSE
 RPT 80-2 NO 1272) P842-890 (000076)
 AKU-SKNR/HE752/A4A5 AKU-DDC/Y4.M53 AL1/18
- 000076 U S CONG HOUSE MERCHANT MARINE AND FISHERIES COM
 ALASKAN PROBLEMS. HEAR BEFORE MERCHANT MARINE AND FISHERIES
 SUBCOM HOUSE 79-2, 80-1 PURSUANT TO AUTHORITY OF HRES38 80-2
 ON HR1032 HR2614 HR2856 HR4690 HJRES396 HJRES401. WASH GPO
 1946-1948 5PTS
 AKU-SKNR/HE752/A4A5 AKU-DOC/Y4.M53 AL1/18
- 000077 U S CONG HOUSE MERCHANT MARINE AND FISHERIES COM
 PROVIDING FOR OCEAN TRANSPORTATION SVCE. TO AND FROM AK UNTIL
 UL1 1948. WASH GPO 1947 27P (U S CONG HOUSE RPT 80-1 NO 39)
 P815-841 (000076)
 T*PROVIDING FOR OCEAN, TRANSPORTATION SVCE
 T*U S CONG HOUSE RPT 80-1 NO 39
 AKU-SKNR/HF752/A4A5
 AKU-DOC/Y4.M53 AL1/18
- 400078 U.S. CONG. HOUSE PUBLIC LANDS COMALASKA. HEAR BEFORE TERRITURIAL AND INSULAR POSS SUBCC'S HOUSE
 80-1 PURSUANT TO HRES93 AG30-S12 1947 WASH GPO 1948 420P IL
 COM HEAR 80-1 NO 31 HELD AT VARIOUS PLACES IN AK
 AKU-SKNR/HE752/A4A5
 AKU-DOC/Y4.M53 AL1/18
- 000079 U S CONG HOUSE PUBLIC LANDS COM STATEHOOD FOR ALASKA. HEAR BEFORE TERRITORIAL AND INSULAR POSS SUBCOM HOUSE 80-1 ON HR206 1808 AP16-18 21-24 1947 WASH GPO 451P MAP COM HEAR 80-1 NO 9 AKU-SKNR/HE752/A4A5 AKU-DOC/Y4.M53 AL1/18
- TOOOO80 U.S. CONG HOUSE PUBLIC LANDS COM STATEHOOD FOR ALASKA. HEAR BEFORE TERRITORIAL AND INSULAR POSS SUBCOM HOUSE 81-1 ON HR331 AND RELATED BILLS MR4 8 1949.

WASH GPO 52P COM HEAR 81-1 NO 3 AKU-SKNR/JK9525/1949/A4

AKU-DOC/Y4.P96/2 81-1/3

U \$ CONG SENATE APPROPRIATIONS COM (000021)

U S CONG SENATE COMMERCE COM (000084)

000081 U S CONG SENATE INTERIOR AND INSULAR AFFAIRS COM ALASKA OMNIBUS BILL. WASH GPO 60P (U S CONG SENATE RPT 86-1 NO 331) AKU-SKNR/JK9525/1959/A483 AKU-DOC/86-1 SRPT 331

1959

1949

- OOCO82 U S CONG SENATE INTERIOR AND INSULAR AFFAIRS COM ALASKA STATEHOOD. HEAR SENATE 81-2 ON HR331 S2036 TO PROVIDE FOR ADMISSION OF AK INTO UNION AP24-29 1950 VASH GPO 531P AKU-SKNR/JK9525/1950/A4 AKU-DOC/Y4.IN8/13 AL1/2
 - U.S. CONG. SENATE INTERIOR AND INSULAR AFFAIRS COM. (000092)
- O00083 U S CONG SENATE MILITARY AFFAIRS COM.

 COMPILATION OF NARRATIVES OF EXPLORATIONS IN AK. WASH GPO
 1900 856P—IL MAPS (U S CONG SENATE RPT 56-1 NO 1023)
 ENTRIES ALSO FOR ABERCROMBIE ALLEN GLENN HOWARD PETROV RAY
 RAYMOND RICHARDSON SCHWATKA WELLS, DETAILED INDEX

 AKU-SKNR/F904/U58

 AKU-DOG/Y4.M59/2 A1
- 000084 U S CONG SENATE PUBLIC WORKS COM
 PROBLEMS OF ALASKA. JOINT HEAR BEFORE PUBLIC WORKS COM AND
 COMMERCE COM SENATE 91-2 HELO AT KODIAK ANCHORAGE FAIRBANKS
 JUNEAU JL6-10 1970. WASH GPO 426P
 1970
 AKU-SKNR/KF26/P8/1970B
 AKU-DOC/Y4.P96/10 AL1/7
 - U S CONG SENATE PUBLIC WORKS COM (000020)

U S ENGINEER DEPT (00:083)

- _000085 U.S. FEDERAL AVIATION ADMIN
 ALASKA REGIOM FAMILY AFFAIR. WASH GPO 1967 BOOKLET IL 1967
 AKU-SKNR, 7910/45 AKU-DOC/TD4.2 ALIS
- ODOO86 U.S. FEDERAL FIELD COMM FOR DEV PLANS IN AK
 ECONOMIC DEVELOPMENT IN ALASKA. ALISKA ECONOMIC DEVELOPMENT
 AND PUBLIC POLICY. IST RPT FIELD COM AND PRESIDENT'S REVIEW
 COMM FOR DEV PLANN IN AK. COMMERCE DEPT. #WASH GPO 42P 1966
 AKU-SKNR/HC107/A45A42/1966 AKU-DOC/C1.2 AL1/2
- 000087 U.S. FEDERAL RECONSTRUCTION AMJ DEV PLANN COMM FOR AK
 RESPONSE TO DISASTER. ALASKA EARTHQUAKE MR27 1964. WASH GPO
 1964 IL MAP
 AKU-SKNR/HV600/1964A4
 AKU-DOC/Y3.ALIS/3 2D63
 - U S FISH AND WILDLIFE S'CE (000043)
 - U \$ FOREST SERVICE SEE ALSO U S NORTHERN FOR EXP STA
 - U S FOREST SERVICE (000065)

U S FOREST SERVICE (000066)

O00088 U.S. GEOLOGICAL SURVEY
BREAKOUT OF ALASKA*S LAKE GEORGE. WASH GPO 1969 15P FOLDER
11
1969

AKU-DOC/119.2 L146 .

000089 U S GEOLOGICAL SURVEY
EXPLORATION OF NAVAL PETROLEUM RESERVE. NO 4 AND ADJACENT
AREAS NORTHERN AK 1944-53. WASH GPO 1956-64 5PTS IL MAPS
(U S GEOLOGICAL SURVEY PROF PAPER 301-305)
AKU-SKNR/-TN872/A4
AKU-DOC/I19.16 301-305

000090 U.S. GEOLOGICAL SURVEY
GEOLOGIC AND WATER SUPPLY RPTS AND MAPS AK. WASH 1966 28P
PUBS ON AK. 1966

AKU-DOC

000091 U S GEOLOGICAL SURVEY
INDEX TO TOPOGRAPHIC MAPS OF 4K (MAP). REV WASH 1966 1 MAP
(FOLD PART COL) 52 X 48 IN

AKU-MAPS

000092 U S GEOLOGICAL SURVEY
MINERAL AND WATER RESOURCES OF AK. RPT BY U S GEOL SURVEY IN
COOPERATION WITH STATE OF AK NATURAL RESOURCES DEPT AT REQUEST
OF SENATOR GRUENING INTERIOR AND INSULAR AFFAIRS COM SENATE
88-2. WASH GPO 1964 179P IL MAPS COM PRINT
1964
AKU-SKNR/TN24/A4A34
AKU-DOC/Y4.1N8/13 M66/23

U S GEOLOGICAL SURVEY (000004)

U S GEOLOGICAL SURVEY (000010)

U S GEOLOGICAL SURVEY (000016)

U S GEOLOGICAL SURVEY (000027)

U S GEOLOGICAL SURVEY (000045)

U S GEOLOGICAL SURVEY (000046)

U.S. INDIAN ARTS AND CRAFTS BOARD (000053)

US INDIAN ARTS AND CRAFTS BOARD (000064)

US INSTITUTE OF NORTHERN FORESTRY JUNEAU (000031)

U.S. INSTITUTE OF NORTHERN FORESTRY JUNEAU (000044)

U S INSTITUTE OF NORTHERN FORESTRY JUNEAU (000069)

O00093 U.S. INTERIOR DEPT

LASKA NATURAL RESOURCES AND RAMPART PROJECT. WASH GPO 1967

44P MAPS TABLES

AKU-SKNR/HC107/A45/A345

AKU-DOC/II.2 AL1/13



000094 INTERIOR OEPT PRIBILOF REPORT 1949. LIVING CONDITIONS AMONG NATIVES OF PRIBILOF ISLANDS AND OTHER COMMUNITIES OF BERING SEA AREA RPT OF SPECIAL GROUP. LAWRENCE KA HASKELL INSTITUTE 1951 IL PORTS MAP 1951 AKU-SKNR/F912/P9U52 AKU-DOCI1.2 P94

INTERIOR DEPT RAMPART PROJECT ALASKA. MARKET FOR POPER AND EFFECT OF PROJECT

ON NATURAL RESOURCES. FIELD RPT JUNEAU 1965 10PTS IN 3V

1965

AKU-SKNR/F912/R3U58 AKU-DOC/11.2 R17

U S MARITIME COMMISSION (000076)

MINES BUR {000067}

000096 NATIONAL MARINE FISHERIES SYCE ALASKA S FISHERY RESOURCES SOCKEYE SALMON, BY WILBUR L HARTMAN. SEATTLE WASH 1971 8P IL (FISHERY LEAFLET 636) 1971 AKU-DOC/C55.314 636

NATIONAL PARK SERVICE RECREATIONAL RESOURCES OF AK HWY AND OTHER ROADS IN AK. WASH GPO 1944 83P IL MAPS 1944 AKU-SKNR/F909/U6 AKU-00C/129.2 AL1S

NATIONAL PARK SERVICE (000041)

U.S. NAVAL PETROLEUM AND DIL SHALE RESERVES OFF (000089)

000098 US NORTHERN FOREST EXP STA. JUNEAU U S FOREST SERVICE RESEARCH PAPER NOR. NO 1- .JUNEAU 1964-V IL INDIVIDUAL BULLS LISTED BY AUTHOR SUPERCEDES ITS STATION PAPER 964-AKU-SKNR/SD144/A4U54 AKU-DOC/A13.78 NOR

NORTHERN FOREST EXP STA. JUNEAU 000099 US U S FOREST SERVICE RESOURCE BULL NOR. 1- NORTHERN FOREST EXP STA- JUNEAU. WASH GPO 1963-V INDIVIDUAL BULLS LISTED BY AUTHOR 963~ AKU-SKNR/TS801/U53 AKU-DOC/A13.80 NOR

NORTHERN FOREST EXP STA. JUNEAU (000013)

NORTHERN FOREST EXP STA. JUNEAU (000015)

PACIFIC NORTHWEST FOR AND RANGE EXP STA (000031)

PACIFIC NORTHWEST FOR AND RANGE EXP STA

PACIFIC NORTHWEST FOR AND RANGE EXP STA

PRESIDENT 1945-1953 TRUMAN, HARRY S 000100 STATEHOOD FOR ALASKA. MESSAGE RELATING TO LEGISLATION TO ADMIT AK TO STATEHOOD AT THE EARLIEST POSSIBLE DATE. MESSAGE DATED

MAY 21 1948 7P (U.S. CONG. SENATE DOC 80-2 NO 159)
P891-897 (000076)
AKU-SKNR/HE752/A4A5
AKU-DOC/Y4.M53 AL1/18

1948

- U-S PRESIDENT'S-ADVIS MERCHANT MARINE COM (000076)
- U S PRESIDENT'S REVIEW COM FOR DEV PLANN IN AK (000086)
 - U S PRICE ADMIN OFF (000076)
- U S SIGNAL OFF (000083)
- O00101 U S SOIL CONSERVATION SVCET
 SUMMARY OF SNOW SURVEY MEASUREMENTS FOR AK 1951-1970. PREPARED
 BY T G FREEMAN. ANCHORAGE 1970 101P IL MAPS
 (FEDERAL STATE PRIVATE COOP SNOW SURVEYS)

 AKU-SKNR/GB2425/A4A28

 AKU-DOC/A57.46/13 951-970
 - "U S SPORT FISHERIES AND WILDLIFE BUR (000037)
- 000102 U S TERRITORIES AND ISLAND POSS DIV INT DEPT
 ALASKA. WASH GPO 1946 65P IL MAPS
 AKU-SKNR/F909/U54
 AKU-DOC/I35.10/2 AL1S/8
 - U S WAR DEPT (000083)
 - U S WAR SHIPPING ADMIN (000076)
- 000103 U S 'WORK PROJECTS ADMIN PENN
 GEOGRAPHIC NAMES IN COASTAL AREAS OF AK. COMP UNDER SUPERVISION OF C AND G SURVEY BY WPA PERSONNEL IN PHILADELPHIA PA
 WASH 1943 133P IL MAPS
 AKU-SKNR/F902/A55/1940
 AKU-DOC/G4.2 AL1/5
- O00104 UTERMOHLE, GEORGE E

 ESTABLISHMENT OF CENTRAL PLACES. IN SEWARD PEN AND INT OF AK
 AS A RESULT OF PLACER GOLD DEVELOPMENT IN THESE REGIONS. M A
 THESIS. TEMPE ARIZONA STATE UNIV 1967 51L MAPS. 1967
 AKU-SKNR/HB3525/A4U8
- 000105 WELLS, E HAZARD ALASKA 1897 UP AND DOWN YUKON. 1897 P509-516 (000083) 1897 AKU-SKNR/F904/U58 AKU-DOC/Y4.M59/2 AL1
- O00106 WIK, DENNIS R
 STUDIES ON HOUSING FOR ALASKA NATIVES. BY DENNIS R WIK,
 WILLIAM B PAGE, MICHAEL L SHANK ED BY JOHN L S HICKEY. ARCTIC
 HEALTH RESEARCH CENTER ANCHORAGE. WASH GPO 1965 127P IL MAPS
 (ENVIRONMENTAL HEALTH SER ARCTIC HEALTH).
 (PUBLIC HEALTH SVCE PUB 999-AH-1)
 AKU-SKNR/E99/E7W63
 AKU-DOC/FS2.300 AH1

YOUNG, STANLEY P. (000037)

INFORMATION RESOURCES ON ALASKA

TITLE INDEX

```
AGRICULTURE HANDBOOK 5 1950 (000066)
         1884 INTERNATIONAL POLAR EXPED TO PT BARROW 1885 (000054)
         1897 RELIEF OF DESTITUTE IN GOLD FLELDS 1898 (000055)
 ALASKA
         1897 UP AND ONWN YUKON 1897 (000105)
 ALASKA
         1898 COPPER RIVER EXPLORING EXPEO
 ALASKA
                                             1899 (000001)
         1898 RELIEF OF DESTITUTE IN YUKON-REGION 1898 (000056)
 ALASKA
         1898 TANANA RIVER EXPLORING EXPED 1899 (000025)
         1899 COOKS INLET EXPLORING EXPED 1899 (000026)
 ALASKA
         1899 COPPER RIVER EXPLORING EXPEO: 1899 (000002)
 ALASKA
        1899 YUKON RIVER EXPLORING EXPED 1899 (000058)
 ALASKA
 ALASKA
        1946 (000102)
 ALASKA
         1948 (000078)
 ALASKA
         1955
               1956 (000072)
 ALASKA
         1966 (000064)
 ALASKA CHRISTIAN CONF MURAL ON AK MISSIONARIES - (PAINTING1967 (000040)
 ALASKA COMMERCIAL COMPANY RECORDS 1868-1911 REGISTER 1967 (000047)
 ALASKA EARTHQUAKE (MOTION PICTURE) 1966 (000004)
 ALASKA EARTHQUAKE MR 27 1964 1964 (000087)
 ALASKA ECONOMIC DEVELOPMENT AND PUBLIC POLICY 1966 (000086)
 ALASKA JOURNAL
                 9710 (000005)
 ALASKA NATURAL RESOURCES AND RAMPART PROJECT 1967 (000093)
 ALASKA OMNIBUS BILL - 1959 (00.0073)
 ALASKA OMNIBUS BILL
                    1959 (000081)
 ALASKA REGION A FAMILY AFFAIR
                                1967 (000085)
ALASKA STATEHOOD 1950 (000082)
ALASKA'S FISHERY RESOURCES SOCKEYE SALMON 1971 (000096)
ALASKA'S GOOD FRIDAY EARTHQUAKE MR 27 1964 1964 (000027)
ALASKA'S TOUGH OLD-TIMERS LOOK BACK AT EARTHQUAKES
                                                     1970 (000049)
ALASKAN PROBLEMS 1946-1948 1948 (000076)
ANALYSIS AND SUMMARY OF FOREST FIRES IN COASTAL AK 1969 (000044)
ANCHORAGE AREA SOIL STUDIES 1964 (000.063)
BIBLI-OGRAPHY AND HISTORICAL NOTES 1946-1968 1969 (000006)
BREAKOUT OF ALASKA'S LAKE GEORGE 1969 (000088)
CACHE OF ALASKA READING 1967 (000007)
       (TOWN) (PHONOTAPE) 1970 (000018)
CHENA
CHENA RIVER STUDY OF SUBARCTIC STREAM 1970 (000023)
COLLECTED PAPERS 1914-1965
                           1971 (000019)
COME TO ALASKA 1972 (000030)
COMPILATION OF NARRATIVES OF EXPLORATIONS 1900 (000083)
CONFERENCE PROCEEDINGS 1962 (000052)
DICTIONARY OF ALASKA PLACE NAMES
                                  1967 (000.045)
DICTIONARY OF ALASKA PLACE NAMES
                                 1971 (.000'046)
DISTRIBUTION OF ALASKAN MAMMALS
                                 1965 (000037)
EARLIEST HISTORY OF ALASKA
                           1970 (000059)
ECOLOGICAL CHANGES IN CHENA RIVER
                                   1969 (000024)
ECONOMIC DEVELOPMENT IN ALASKA 1966 (000086)
EDIBLE AND POISONOUS PLANTS OF AK
                                   1953 (000032)
EFFECTS OF PLACER MINING ON WATER QUALITY IN AK
ENVIRONMENTAL HEALTH SER
                          ARCTIC HEALTH 1965 (000106)
ESKIMO STRING FIGURES 1924 (000036)
ESTABLISHMENT OF CENTRAL PLACES
                                1967 (000104)
EXPLORATION OF NAVAL PETROLEUM RESERVE 1964 (000089)
EXPLORATIONS IN AND ABOUT COOKS INLET 1899 (000026)
```

```
FAIRBANKS FLOOD CONTROL 1967 (000070)
 FAUNA OF ALEUTIAN ISLANDS AND AK PENINSULA 1959 (000043)
 FAUNA SER 5 × 1944 (000041)
 FEDERAL ARCTIC RESEARCH 1968 (000021)
 FEDERAL STATE PRIVATE COOP SNOW SURVEYS 1970 (000101)
 FISHERY LEAFLET 636 1971 (000096)
 FLOOD OF AUGUST 1967 AT FAIRBANKS AK (MAP) 1967 (000016)
FOREST RESOURCES OF SUSITNA VALLEY 1970 (000031)
 GEOGRAPHIC DICTIONARY OF AK
                             1906 (000010)
 GEOGRAPHIC NAMES IN COASTAL AREAS OF AK 1943 (000103)
 GFOLOGIC AND WATER SUPPLY RPTS AND MAPS AK, 1966 (000090)
 GRAPHIC ARTS OF ALASKAN ESKIMO
                                1969 (000053)
HISTORY OF ALEUTIAN ISLANDS 1970 (000059)
HOUSING FOR ALASKA MATIVES 1965 (000106)
 HYDROLOGIC INVESTIGATIONS ATLAS HA-294
                                        1967 (000016)
 INCOME IN ALASKA 1960 (000071)
 INDEX TO TOPOGRAPHIC MAPS OF AK
                                (MAP) 1966 (000091)
 INDIAN HANDCRAFT BOOKS 1944 (000050)
 INDIAN RELICS PT1 1969 (000038)
 INDIAN TOOLS AND MISCELLANEOUS 1969 (000038)
 INTERNATIONAL POLAR EXPED TO PT BARROW 1881-1883 1885 (000054)
INVERTEBRATES AND FISHES COLLECTED IN ALEUTIANS 1936-38
                                                        1959 (000043)
, IRON TR'AIL
           1965 (000012)
KLONDIKE ALBUM 1967 (000039).
LANDSLIDES ON LOGGED AREAS IN SOUTHEAST AK 1964 (000013)
LIBRARIES ARE VITAL TO AK LIFE 1963 (000011)
LIFE OF BARANOV 1970 (000059)
MAP OF CENTRAL-ALASKA (MAP) 1970 (000033)
MARKET FOR POWER AND EFFECT OF PROJ ON NATURAL RESOURCES 1965 (000095
MARKET FOR RAMPART-POWER YUKON RIVER AK 1962 (000020)
MIGHTY YUKON AS SEEN AND EXPLORED 1899 (000058)
MILITARY RECONNAISSANCE IN AK MADE IN 1885 1886 (000009)
MILITARY RECONNAISSANCE OF COPPER RIVER VALLEY 1899 (000001)
MINERAL AND WATER RESOURCES OF AK
                                  1964 (000092)
NATIVE AMERICAN ARTS 2 1969 (000053)
NORTH AMERICAN FAUNA SER- 61 1959 (000043)
ONE MAN'S GOLD RUSH 1967 (000039)
ONE STRING VIOLIN (REALIA) 1925 (000014)
PLACER MINING IN ALASKA 1959 (000067)
POCKET GUIDE TO ALASKA TREES 1929 (000065)
POCKET GUIDE TO ALASKA TREES 1950 (000066)
POPULATION, RESOURCES, ETC OF AK 1881 (000051)
PRIBILUF REPORT .1949 1951 (000094)
PROBLEMS OF ALASKA 1970 (000084)
PROSPECTORS MAP OF CENTRAL AK
                              (MAP) 1970 (000033).
PROVIDING FOR OCEAN TRANSPORTATION SVCE 1947 (000077)
PUBLIC HEALTH SVCE PUB 999-AH-1 1965 (000106)
RAISING REINDEER IN AK
                       1935 (000.048)
RAMPART PROJECT ALASKA
                       1965 (000095)
REACHING RURAL ALASKAN NATIVES 1971 (000022)
RECONNAISSANCE OF YUKON RIVER 186,9 1871 (000057)
RECREATIONAL RESOURCES OF AK HWY AND OTHER ROADS 1944 (000097)
REINDEER IN ALASKA 1922 (000029)
```

```
RELIFF OF DESTITUTE IN GOLD FIELDS
                                     1898 (000055)
 RELIEF OF DESTITUTE IN YUKON REGION 1:898 (000056)
 REPORT OF MILITARY RECON MADE IN AK IN 1883
                                              1.885 (000061)
 REPORT OF MILITARY RECON MADE IN AK IN 1883
                                              1885 (000062)
 RESPONSE TO DISASTER
                      1964 (000087)
 RIVER TIMES
              9700 (000060)
SECRETARY STANS REPORTS FAVORABLY ON SEAL HARVESTING
                                                       1971 (000017)
 SPRUCE ROOT BASKETRY OF AK TLINGET 1944 (000050)
 STATEHOOD FOR ALASKA
                      1947 (000074)
 STATEHOOD FOR ALASKA
                       1947 (000079)
 STATEHOOD FOR ALASKA
                      1948 (000100)
 STATEHOOD FOR ALASKA
                      1949 (000080)
 STUDIES UN HOUSING FOR ALASKA NATIVES 1965 (000106)
SUMMARY AND ANALYSIS OF FIRE DANGER INDEXES
                                             1969 (000069)
SUMMARY OF SNOW SURVEY MEASUREMENTS FOR AK 1951-1970
                                                       1970 (000101)
SUPPLEMENTARY EXPED INTO COPPER RIVER VALLEY
                                              1884 (000003)
SURVEY OF CURRENT BUSINESS SUP
                                 1960 (000071)
THOUGH EARTH BE MOVED
                       (MOTION PICTURE)
                                          1965 (000068)
TRADE BEADS IN ALASKA :1972 (000035)
TRANSPORTATION IN ALASKA 1948 (000075)
TRIP TO REGION OF TANANA
                           1899 (000025)
TWO IN FAR NORTH
                  1962 (000042)
UŚ
     AGRICULTURE DEPT BULL 1089 1922 (000029) .
     AGRICULTURE DEPT MISC PUB 207 1934 (000048)
US
US
     AGRICULTURE DEPT MISC PUB 55 1929 (000065)
US
     CENSUS REPORT OF 1880
                            1881 (000051)
US
     CONG
           HOUSE "RPT 80-1 NO 39
                                 1947 (000077)
U
     CONG
           HOUSE RPT 80-2 NO 1272 1948 (000075)
US
     CONG
           SENATE DOC 80-2 NO 159
                                    1948 (000100)
US
           SENATE DOC 90-2 NO 71
     CONG
                                   1968 (000021)
U S
     CONG
           SENATE EX-DOC 48-2 NO2
                                    1885 (000062)
IJ
     CONG
           SENATE RPT 56-1 NO 1023
                                    1900 (000083)
US
           SENATE RPT 86-1 NO 331
                                    1959 (000081)
US
     FOREST SERVICE RESEARCH PAPER NOR 9640 (000098)
US
     FOREST SERVICE RESEARCH PAPER NOR-1 1964 (000013)
     FOREST SERVICE RESOURCE BULL NOR 9630 (000099)
US
     FOREST SERVICE RESOURCE BULL NOR-1
US
                                        1963 (000015).
     FOREST SERVICE RESOURCE BULL PNW 32 1970 (000031)
US
     GEOLOGICAL SURVEY BULL 2969
US
                                1906. (000010)
     GEOLOGICAL SURVEY CIRC 491
US
                                 1964 (000027)
US
     GEOLOGICAL SURVEY PROF PAPER 301-305
                                            1964 (000089)
U.S
     GEOLOGICAL SURVEY PROF PAPER 567
                                      1967 (000045)
     GEOLOGICAL SURVEY PROF PAPER 567
                                       1971 (000046)
US
     GEOLOGICAL SURVEY SER F GEOG 52
                                      1906 (000010)
     MINES BUREAU INFO CIRC 7926
                                 1959 (000067)
     SPORT FISHERIES AND WILDLIFE BUR CIRC 211
                                                 1965 (000037)
UPPER YUKON RIVER STUDY CANADA-U S
                                    1969 (000006)
VISIT TO ALASKA IN JUNE 1875
                              1876 (000034)
VOYAGE TO ALASKA
                 1970 (000059)
WILL ROGERS AND WILEY POST (PHOTOGRAPM: 1935 (000028)
WOLVES OF MOUNT MCKINLEY 1944 (000041)
WOOD PROCESSING IN AK 1963 (000015) ,
```

INFORMATION RESOURCES ON ALASKA SUBJECT DESCRIPTOR INDEX

```
ALASKA COMMERCIAL COMPANY
   ALASKA COMMERCIAL COMPANY RECORDS 1868-1911 REGISTER 1967 (000047)
 ALASKA HIGHWAY
   RECREATIONAL RESOURCES OF AK HWY AND OTHER ROADS IN AK 1944 (000097)
 ALASKA MILITARY RECON OF 1883 (EXPED)
   REPORT OF MILITARY RECON MADE IN AK IN 1883
                                                1885 (000061)
   REPORT OF MILITARY RECON MADE IN AK IN 1883 1885 (000052)
 ALASKA OMNIBUS BILL
   ALASKA OMNIBUS BILL
                       1959 (000073)
   ALASKA OMNIBUS BILL
                       1959 (000081)
 ALASKA PENINSULA
   FAUNA DE ALEUTIAN ISLANDS AND AK PENINSULA 1959 (000043)
 ALASKA RAILRDAD
   PROBLEMS OF ALASKA 1970 (000084)
 ALASKA STATEHOOD SEE STATEHOOD
 ALBUMS
   DNE MAN'S GOLD RUSH 1967 (000039)
 ALEUTIAN ISLANDS
   EARLIEST HISTORY OF ALASKA 1970 (000059)
  FAUNA OF ALEUTIAN ISLANDS AND AK PENINSULA
                                               1959 (000043)
 ALEUTS
  REPORT ON POPULATION, RESOURCES, ETC OF AK
                                               1881 (000051)
ANCHORAGE AREA SOIL SURVEYS
  REPORT ON ANCHORAGE AREA SOIL STUDIES 1964 (000063)
ARCTIC REGIONS RESEARCH
  FEDERAL ARCTIC RESEARCH 1968 (000021)
ART • ~
  ALASKA JOURNAL
                  971- (000005)
ATHABASCAN INDIANS
                      SEE ATHAPASCAN INDIANS
ATHAPASCAN ... I'NDIANS
  REACHING RURAL ALASKAN NATIVES. 1971 (000022)
BARANOF, ALEXANDER
                      SEE BARANOV, ALEKSANDR A
BARANDV, ALEKSANDR A 1745-1819
  EARLIEST HISTORY OF ALASKA 1970 (000059)
BARK WORKING TOOLS
  INDIAN TOOLS AND MISCELLANEOUS 1969 (000038)
BASKET MAKING
  SPRUCE ROST BASKETRY OF AK TLINGET 1944 (000050)
BERING SEA AREA
  PRIBILOF REPORT 1949 1951 (000094)
BEST BOOKS - BIBLIOGRAPHIES
  CACHE OF ALASKA READING
                           1967 (000007)
BIBL IDGRAPHIES
  CACHE OF ALASKA READING
                           1967 (000007)
BIRDS - ALASKA PENINSULA
  FAUNA OF ALEUTIAN ISLANDS AND AK PENINSULA 1959 (000043).
BIRDS - ALEUTIAN ISLANDS
  FAUNA OF ALEUTIAN ISLANDS AND AK PENINSULA 1959 (000043)
BUSINESS
  INCOME IN ALASKA 1960 (000071)
CANADA UNITED STATES RELATIONS
  BIBLIOGRAPHY AND HISTORICAL NOTES 1946-1968
                                              1969 (000006)
CANADIAN ARCTIC EXPED 1913-1918
  ESKIMO STRING FIGURES
                        (MICROFILM CARDS) 1924 (000036)
CENTRAL DISTRICT
```

4-MARS

MAP: OF CENTRAL AT ACK

```
CHENA RIVER
   CHENA RIVER STUDY OF SUBARCTIC STREAM 1970 (000023)
   ECOLOGICAL CHANGES IN CHENA RIVER 1969 (000024)
 CITIES AND TOWNS
   ALASKA 1948 (000078)
   ALASKA 1955 1956 (000072)
   ESTABLISHMENT OF CENTRAL PLACES 1967 (000104)
     INDIVIDUAL NAMES OF PLACES
 COASTAL AREAS
   ANALYSIS AND SUMMARY OF FOREST FIRES IN COASTAL AK: 1969 (000044)
   GEOGRAPHIC NAMES IN COASTAL AREAS OF AK
                                           1943'(000103)
   SUMMARY AND ANALYSIS OF FIRE DANGER INDEXES 1969 (000069)
 COASTAL EXPLORATION
   REPORT OF VISIT TO ALASKA IN JUNE 1875 1876 (000034)
 COMMERCE
   ALASKAN PROBLEMS. 1948 (0000.76)
CONSERVATION OF NATURAL RESOURCES
   PROBLEMS OF ALASKA 1970 (000084)
 COOK INLET
   ALASKA 1899 COOKS INLET EXPLORING EXPED 1899 (000026)
   SEÉ ALSO
    COOKS INLET EXPLORING EXPED 1899
COOKS INLET EXPLORING EXPED 1899
  ALASKA 1899 COOKS INLET EXPLORING EXPED 1899 (000026)
COPPER ESKIMOS
  ESKIMO STRING FIGURES (MICROFILM CARDS) 1924 (000036)
COPPER RIVER EXPLORING EXPED 1885
  REPORT OF MILITARY RECON IN AK MADE IN 1885 1886 (000009)
COPPER RIVER EXPLORING EXPED 1898
  ALASKA 1898 COPPER RIVER EXPLORING EXPED
                                            1899 (000001) $...
COPPER RIVER EXPLORING EXPED 1899
  ALASKA. 1899 COPPER RIVER EXPLORING EXPED
                                            1899 (000002)
COPPER RIVER MILITARY RECON
  ALASKA 1898 COPPER RIVER EXPLORING EXPED
                                            1899 (000001)
  ALASKA 1899 COPPER RIVER EXPLORING EXPED 1899 (000002)
COPPER RIVER VALLEY MILITARY RECON
  REPORT OF SUPPLEMENTARY EXPED INTO COPPER RIVER VALLEY 1884 (000003)
COPPER RIVER VALLEY SUPPLEMENTARY EXPED 1884
  REPORT OF SUPPLEMENTARY EXPED INTO COPPER RIVER VALLEY 1884 (000003)
CROSSON, JOSEPH E //JOE1 1903-1949
  WILL ROGERS AND WILEY POST (PHOTOGRAPH) 1935 (000028)
CUT OVER LANDS
  LANDSLIDES ON LOGGED AREAS IN SOUTHEAST AK 1964 (000013)
DAVIS, EDWARD W
               (EDBY)
  CHENA (TOWN)
                (PHONOTAPE) 1970 (000018)
  COLLECTED PAPERS 1914-1965 1971 (000019)
DESCRIPTION AND TRAVEL
  ALASKA
         1946 (000102)
  ALASKA REGION FAMILY AFFAIR
                              1967 (000085)
 ONE MAN'S GOLD RUSH 1967 (000039)
 RECREATIONAL RESOURCES OF AK HWY AND OTHER ROADS IN AK
 REPORT OF MILITARY RECON MADE IN AK IN 1883 1885 (000061)
 REPORT OF MILITARY RECON MADE IN AK IN 1883 1885 (000062)
 REPORT ON POPULATION, RESOURCES, ETC OF AK. 1881 (000051)
DESCRIPTION AND TRAVEL - COMPILATIONS
```

COMPINATION TO MADONT TUES AFT

```
ALASKA 1898 RELIEF OF DESTITUTE IN YUKON REGION
                                                   1898 (000056)
   RESPONSE TO DISASTER 1964 (000087)
 EARTHQUAKES
   ALASKA'S TOUGH OLD-TIMERS LOOK, BACK AT EARTHQUAKES
                                                      1970 (000049)
 EARTHQUAKES
             1964
   ALASKA EARTHQUAKE (MOTION PICTURE) 1966 (000004)
   ALASKA'S GOOD FRIDAY EARTHOUAKE MR 27 1964 1964 (000027)
   REPORT ON ANCHORAGE AREA SOIL STUDIES
                                         1964 (000063)
  RESPONSE TO DISASTER 1964 (000087)
   THOUGH EARTH BE MOVED (MOTION PICTURE) 1965 (000068)
 ECOLOGICAL RESEARCH - CHENA RIVER
  ECOLOGICAL CHANGES IN CHENA RIVER 1969 (000024)
ECONOMIC CONDITIONS
          1897 RELIEF OF DESTITUTE IN GOLD FIELDS 1898 (000055)
  ALASKA
          1898 RFLIEF OF DESTITUTE IN YUKON REGION 1898 (000056)
  ALASKA
  ALASKA
          1946 (000102)
  ALASKA
          1948 (000078)
  ALASKA
          1955
               1956 (000072)
  ECONOMIC DEVELOPMENT IN ALASKA 1966 (000086)
ECC MMIC CONDITIONS - PRIBILOF ISLANDS
  PRIBILOF REPORT 1949 1951 (000094)
EDIBLE PLANTS
  EDIBLE AND POISONOUS PLANTS OF AK 1953 (000032)
ELECTRIC POWER MARKET
  MARKET FUR RAMPART POWER YUKON RIVER AK
                                          1962 (000020)
  RAMPART PROJECT ALASKA 1965 (000095)
ESKIMO ARTISTS
  GRAPHIC ARTS OF ALASKAN ESKIMO 1969 (000053)
ESKIMO ARTS AND CRAFTS
  ALASKA 1966 (000064)
  GRAPHIC ARTS OF ALASKAN ESKIMO 1969 (000053)
ESKIMO HOUSING
  STUDIES ON HOUSING FOR ALASKA NATIVES 1965 (000106)
ESKIMO STOVES
  INDIAN TOOLS AND MISCELLANEOUS 1969 (000038)
ESKIMOS
  REACHING RURAL ALASKAN NATIVES 1971 (000022)
  REPORT ON POPULATION. RESOURCES, ETC OF AK 1881 (000051)
  SEE ALSO
    ALEUTS
    COPPER ESKIMOS
EXPLORING EXPEDITIONS
  ALASKA 1884 INTERNATIONAL POLAR EXPED TO PT BARROW
                                                       1885 (000054)
  ALASKA 1898 COPPER RIVER EXPLORING EXPED
                                            1899 ('000001)
  ALASKA
          1898 TANANA RIVER EXPLORING EXPED
                                            1899 (000025)
          1899 COOKS INLE: EXPLORING EXPED 1899 (000026)
  ALASKA
         1899 COPPER RIVER EXPLORING EXPED 1899 (000002)
  ALASKA
         1899 YUKON RIVER EXPLORING EXPED 1899 (000058)
  ALASKA
  RECONNAISSANCE OF YUKUN RIVER 1869 1871 (000057)
  REPORT OF MILITARY RECON IN AK MADE IN 1885
                                               1886 (000009)
  REPORT OF MILITARY RECON MADE IN AK IN 1883
                                               1885 (000061)
  REPORT OF MILITARY RECON MADE IN AK IN 1883
                                              1885 (000062)
  REPORT OF SUPPLEMENTARY EXPED INTO COPPER RIVER VALLEY
                                                          1884 (000003)
  REPORT OF VISIT TO ALASKA IN JUNE 1875 1876 (000034)
EXPLORING EXPEDITIONS - COMPILATIONS
 COMPILATION OF NARRATIVES OF EXPLORATIONS IN AK 1900 GOODBED
```

```
CULLECTED PAPERS 1914-1965
                               1971 (000019)
 FAIRBANKS FLOOD 1967
   FAIRBANKS FLOOD CONTROL 1967 (000070)
   FLOOD OF AUGUST 1967 AT FBKS AK (MAP)
                                           1967 (.000016)
 FAIRBANKS NEWSPAPERS
   RIVER TIMES : 970- (000060)
 FISH AND FISHERIFS
   ALASKA'S FISHERY RESOURCES SOCKEYE SALMON 1971 (000096)
 FISHERIES
   ALASKAN PRUBLEMS 1948 (000076)
   PROBLEMS OF ALASKA 1970 (000084)
   REPORT ON PUPULATION, RESOURCES, ETC OF AK 1881 (000051)
 FISHES - ALEUTIAN ISLANDS
   FAUNA OF ACEUTIAN ISLANDS AND AK PENINSULA 1959 (000043)
 FLOOD CONTROL - TANANA RIVER BASIN
   FAIRBANKS FLOOD CONTROL
                            1967 (000070)
 FLOODS - FAIRBANKS
   FAIRBANKS FLOOD CONTROL
                            1967 (000070)
   FLOOD OF AUGUST 1967 AT FBKS AK
                                   (MAP)
                                           1967 (000016)
 FOREST FIRES
  ANALYSIS AND SUMMARY OF FOREST FIRES. IN COASTAL AK 1969 (000044)
   SUMMARY AND ANALYSIS OF FIRE DANGER INDEXES
                                               1969 (000069)
FORESTRY RESEARCH
      FOREST SERVICE RESEARCH PAPER NOR
                                          964- (000098)
FORESTS AND FORESTRY
  FOREST RESOURCES OF SUSITNA VALLEY AK .1970 (000031)
      FOREST SERVICE RESEARCH PAPER NOR 964- (000098)
  U S FOREST SERVICE RESOURCE BULL NOR 963- (000099)
FRONTIER AND PIONEFR LIFE
  ALASKA 1946 (000102)
  COME TO ALASKA 1972 (000030)
  THO IN FAR NORTH 1962 (000042)
FUR TRADE
  REPORT ON POPULATION, RESOURCES, ETC OF AK 1881 (000051)
GEOGRAPHICAL NAMES - DICTIONARIES
  DICTIONARY OF ALASKA PLACE NAMES
                                    1967 (000045)
  DICTIONARY OF ALASKA PLACE NAMES
                                    1971 (000046)
  GEOGRAPHIC DICTIONARY OF AK 1906 (200010)
  GEOGRAPHIC NAMES IN COASTAL' AREAS OF AK 1943 (000103)
GEOLOGICAL SURVEYS.
  ALASKA'S GUOD FRIDAY EARTHQUAKE MR 27 1964 1964 (000027)
GE\0L0GY
  INDEX TO TUPOGRAPHIC MAPS OF AK
                                  (MAP)^ 1966 (000091)
GEOLOGY - ANCHORAGE AREA
  REPORT ON ANCHORAGE AREA SOIL STUDIES 1964 (000063)
GEOLOGY - BIBLIOGRAPHIES
  GEOLOGIC AND WATER SUPPLY RPTS AND MAPS AK 1966 (000090)
GOLD MINES AND MINING
  EFFECTS OF PLACER MINING ON WATER QUALITY IN AK 1969 (000008)
  ESTABLISHMENT OF CENTRAL PLACES
                                  1967 (000104)
GOOD FRIDAY EARTHQUAKE MR 27 1964
  ALASKA EARTHQUAKE
                     (MOTION PICTURE) 1966 (000004)
  ALASKA'S GOOD FRIDAY EARTHQUAKE MR 27 1964
                                              1964 (000027)
  RESPONSE TO DISASTER 1964 (000087) .
  THOUGH EARTH BE MOVED (MOTION PICTURE)
                                           1965 (000068)
```

GOOD FRIDAY EARTHQUAKE MR 27 1964 - ANCH:

```
WILL ROGERS AND WILEY POST (PHUTOGRAPH)
                                            1935 (000028)
 HISTORY
   ALASKA JOURNAL 971- (000005)
 HISTORY
           TO 1867
   ENRLIEST HISTORY OF ALASKA 1970 (000059)
 HISTORY - 1867-1899
   REPORT OF MILITARY RECON MADE IN AK IN 1883
                                                1885 (000061)
   REPORT OF MILITARY RECON MADE IN AK IN 1883 1885 (000062)
   REPORT ON POPULATION, RESOURCES, ETC OF AK 1881 (000051)
 HISTORY - 1867-1899 - COMPILATIONS
   COMPILATION OF NARRATIVES OF EXPLORATIONS IN AK
                                                   1900 (000083)
 HOUSING RESEARCH
   STUDIES ON HOUSING FOR ALASKA NAFIVES 1965 (000106)
 ICE BREAKUP
   BREAKOUT OF ALASKA'S LAKE GEORGE 1969 (000088)
 INCUME
   INCOME IN ALASKA 1960 (000071)
 INDIAN ARTS AND CRAFTS
   ALASKA 1966 (000064)
 INDIAN HOUSING
   STUDIES ON HOUSING FOR ALASKA NATIVES '965 (000106)
 INDIANS
   ALASKA
          1898 COPPER RIVER EXPLORING EXPED
                                             1899 (000001)
   ALASKA 1898 TANANA RIVER EXPLORING EXPED 1899 (000025)
   REPORT OF MILITARY RECON MADE IN AK IN 1883 1885 (000061)
   REPORT OF MILITARY RECON MADE IN AK IN 1883 1885 (000062)
   REPORT OF SUPPLEMENTARY EXPED INTO COPPER RIVER VALLEY 1884 (000003)
   REPORT ON POPULAT A. RESOURCES, ETC OF AK 1881 (000051)
 INDIANS SOCIAL LIFE AND CUSTOMS
   REPORT OF MILITARY RECON IN AK MADE IN 1885 1886 (000009)
 INDUSTRY
   INCOME IN ALASKA 1960 (000071)
INTERIOR
  ESTABLISHMENT OF CENTRAL PLACES 1967 (000104)
INTERNATIONAL POLAR EXPED TO PT BARROW 1881-1883
  ALASKA 1884 INTERNATIONAL POLAR EXPED TO PT BARROW 1865 (000054)
INVERTEBRATES - ALEUTIAN ISLANDS
  FAUNA OF ALEUTIAN ISLANDS AND AK PENINSULA 1959 (000043)
KLONDIKE GOLD FIELDS
  ONE MAN'S GOLD RUSH 1967 (000039)
KODIAK DISTRICT
  ALASKA COMMERCIAL COMPANY RECORDS 1868-1911 REGISTER 1967 (000047)
KOYUKUK RIVER EXPLORING EXPED 1885
  REPORT OF MILITARY RECON IN AK MADE IN 1885 1886 (000009)
LAKE GEORGE
   REAKOUT OF ALASKA'S LAKE GEORGE 1969 (000388)
LANDSLIDES
  LANDSLIDES ON LOGGED AREAS IN SOUTHEAST AK 1964 (000013)
LAW ENFORCEMENT
        1897 RELIEF OF DESTITUTE IN GOLD FIELDS
                                                   1898 (000055)
 'ALASKA' 1898 RELIEF OF DESTITUTE IN YUKON REGION 1898 (000056)
LIBRARIES
  LIBRARIES ARE VITAL TO AK LIFE 1963 (000011)
LIBRARY SERVICES ACT
  LIBRARIES ARE VITAL TO AK LIFE
                                 1963 (000011)
LOGGED OFF LANDS
                   SEE CUT OVER LANDS
```

LOGGING

SEE - LUMBERING.

```
LANDSLIDES ON LOGGED AREAS IN SOUTHEAST AK
                                                 1964 (000013) .
    U S FOREST SERVICE RESOURCE BULL NOR 963- (000099)
  MAMMAL DISTRIBUTION
    DISTRIBUTION OF ALASKAN MAMMALS
                                      1965 (000037)
  MAMMAL SPECIES
    DISTRIBUTION OF ALASKAN MAMMALS
                                      1965 (000037)
  MAMMALS - ALASKA PENINSULA
    FAUNA OF ALEUTIAN ISLANOS AND AK PENINSULA
                                                1959 (000043)
  MAMMALS - ALEUTIAN ISLANDS
   FAUNA OF ALEUTIAN ISLANDS AND AK PENINSULA
                                                1959 (000043)
 MAPS - BIBLIOGRAPHIES
    GEOLOGIC AND WATER SUPPLY RPTS AND MAPS AK
                                                1966 (000090)
 MAPS - INDEXES
   INDEX TO TOPOGRAPHIC MAPS OF AK (MAP) 1966 (000091)
 MARINE HIGHWAY
   PROBLEMS OF ALASKA 1970 (000084)
 MILITARY RECONNAISSANCE
            1898 TANANA RIVER EXPLORING EXPED 1899 (000025)
   ALASKA
   ALASKA 1899 COOKS INLET EXPLORING EXPED 1899 (000026) REPORT OF MILITARY RECON IN AK MADE IN 1885 1886 (0000)
   REPORT OF MILITARY RECON MADE IN AK IN 1883
                                                 1886 (000009)
                                                1885 (000061)
   REPORT OF MILITARY RECON MADES IN AK IN 1883. 1885 (000062)
 MINERAL DEPOSITS
   MINERAL AND WATER RESOURCES OF AK 1964 (000092)
 MINERS
   ALASKA 1897 UP AND DOWN YUKON 1897 (000105)
   ALASKA 1898 COPPER RIVER EXPLORING EXPED 1899 (000001)
          1898 RELIEF OF DESTITUTE IN YUKON REGION 1898 (000056)
   ALASKA
 MINING COSTS
   PLACER MINING IN ALASKA
                             1959 (000067)
 MINING METHODS AND EQUIPMENT
   PLACER MINING IN ALASKA 1959 (000067)
 MISSIONARIES
   ALASKA CHRISTIAN CONF MURAL ON AK MISSIONARIES (PAINTING) 1967 (000040
MOUNT MCKINLEY NATIONAL PARK
  WOLVES OF MOUNT MCKINLEY 1944 (000041)
MURIE, MARGARET
   TWO IN FAR NORTH
                    1962 (000042)
MURIE, OLAUS J 1889-1963
  TWO IN FAR NORTH 1962 (000042)
NAMES, GEOGRAPHICAL
                        SEE GEOGRAPHICAL NAMES
NATIONAL DEFENSE PROGRAM
  ALASKAN PŘUBLEMS
                    1948 (000076)
NATIVES
  PIVER TIMES 970- (000060)
NATURAL RESOURCES
  ALASKA NATURAL RESOURCES AND RAMPART PROJECT
                                                1967 (000093)
  CONFERENCE PROCEEDINGS
                          1962 (000052)
  RAMPART PROJECT ALASKA
                          1965 (000095)
  REPORT ON PUPULATION, RESOURCES, ETC OF AK 1881 (000051)
NEWSPAPERS - FAIRBANKS
  RIVER TIMES
               970- (000060)
NORTHERN AREAS
  EXPLORATION OF NAVAL PETROLEUM RESERVE 1964 (000089)
```

OCEAN TRANSPURFATION

PROVIDING FOR OCEAN TRANSPORTATION TOURS

```
PRUBLEMS OF ALASKA 1970 (0000849
 OMNIBUS -BILL
                SEE ALASKA OMNIBUS BILL
 PERIODICALS
   ALASKA JOURNAL 971- (000005)
 PETROLEUM
   EXPLORATION OF NAVAL PETROLEUM RESERVE 1964 (000089)
 PIONEER'S'
   ALASKA'S TOUGH OLD-TIMERS LOOK BACK AT EARTHQUAKES 1970 (000049)
 PLACER MINING
   EFFECTS OF PLACER MINING ON WATER QUALITY IN AK 1969 (000008)
   PLACER MINING IN ALASKA 1959 (000067)
 POINT BARROW
   ALASKA 1884 INTERNATIONAL POLAR EXPED TO PT BARROW 1885 (000054)
 POISONOUS PLANTS
   EDIBLE AND POISONOUS PLANTS OF AK 1953 (000032)
 POLITICS AND GOVERNMENT
   ALASKA OMNIBUS BILL 1959 (000073)
   ALASKA STATEHOOD 1950 (-C00082)
   STATEHOOD FOR ALASKA 1947 (000074)
   STATEHOOD FOR ALASKA
                        1947 (000079)
   STATEHOOD FOR ALASKA
                        1949 (000080)
 POPULATION
   REPORT ON POPULATION, RESOURCES, ETC OF AK 1881 (000051)
 POST, WILEY 1900-1935
   WILL ROGERS AND WILEY POST (PHOTOGRAPH) 1935 (000028)
 PRIBILUF ISLANDS
  PRIBILOF REPORT 1949 1951 (000094)
  SECRETARY STANS REPORTS FAVORABLY ON SEAL HARVESTING 1971 (000017)
 PUBLIC LANDS
  ALAŠKA 1948 (000078)
RAILROAD STORIES
  IRUN TRAIL 1965 (000012)
RAMPAPT PROJECT (PROPOSED)
  ALASKA NATURAL RESOURCES AND RAMPART PROJECT 1967 (000093)
  CONFERENCE PROCEEDINGS 1962 (000052)
  MARKET FOR RAMPART POWER YUKON RIVER AK
                                           1962 (000020)
  RAMPART PROJECT ALASKA 1965 (000095)
RECREATION AREAS
  RECREATIONAL RESOURCES OF AK HWY AND OTHER ROADS IN AK 1944 (000097)
REINDEFR INDUSTRY
  RAISING REINDEER IN ALASKA 1934: (000048)
  REINDEER IN ALASKA 1922 (000029)
REINDEER RAISING
  RAISING REINDEER IN ALASKA 1934 (000048)
  REINDFER IN ALASKA
                     1922 (000029)
RESEARCH - ARCTIC REGIONS
  FEDERAL ARCTIC RESEARCH 1968 (000021)
RESEARCH - U S
  FEDERAL APCTIC RESEARCH 1968 (000021)
ROAD SURVEYING
         1899 COPPER RIVER EXPLORING EXPED 1899 (000002)
  ALASKA
ROADS.
 RECREATIONAL RESOURCES OF AK HWY AND OTHER ROADS IN AK 1944 (000097)
```

(PHOTOGRAPH) 1935 (000028)

ROGERS, WILL 1879-1935

RUSIE, GLARA HICKMAN

WILL ROGERS AND WILEY POST

```
SAWMILLS
    WOOD PRUCESSING IN ALASKA 1961 1963 (000015)
  SEALS. (ANIMALS)
    SECRETARY STANS REPORTS FAVORABLY ON SEAL HARVESTING 1971 (000017)
  SFWARD PENINSULA
    ESTABLISHMENT OF CENTRAL PLACES 1967 (000104)
 SHIPPING
   ALASKAN PROBLEMS 1948 (000076)
   PROBLEMS OF ALASKA 1970 (000084)
   SEE ALSO
     OCEAN TRANSPORTATION
 SHRUBS
   POCKET GUIDE TO ALASKA TREES 1929 (000065)
   POCKET GUIDE TO ALASKA TREES 1950 (000066)
 SNOW SURVEYS
   SUMMARY OF SNOW SURVEY MEASUREMENTS FOR AK 1951-1970 1970 (000101)
 SNUFF PESTLES AND MORTARS
   INDIAN TOOLS AND MISCELLANEOUS 1969 (000038)
 SOCIAL CONDITIONS
   ALASKA
          1955
                1956-(000072)
 SOCKEYE SALMONT.
   ALASKA'S FISHERY RESOURCES SOCKEYE SALMON 1971 (000096)
 SPRUCE ROOT BASKETRY
   SPRUCE ROOT BASKETRY OF AK TLINGET 194 . 1000050)
 STANS, MAURICE H
   SECRETARY STANS REPORTS FAVORABLY ON SEAL HARVESTING
                                                        1971 (000017)
 STATEHOOD HEAR
   ALASKA
           1948 (000078)
   ALASKA
          1955
               1956 (000072)
  ALASKA OMNIBUS BILL 1959 (000073)
  ALASKA STATEHOOD 1950 (000082)
  STATEHOOD FOR ALASKA 1947 (000074)
  STATEHOOD FOR ALASKA 1947 (000079)
  STATEHOOD FOR ALASKA 1949 (000080)
STATEHOOD LEGISLATION
  ALASKA OMNIBUS BILL
                      1959 (000073)
  ALASKA OMNIBUS 81LL 1959 (000081)
  ALASKA STATEHOOD 1950 (000082)
  STATEHOOD FOR ALASKA 1948 (000100)
STRING FIGURES
  ESKIMO STRING FIGURES (MICROFILM CARDS) 1924 (000036)
SUSITNA VALLEY
  FOREST RESOURCES OF SUSITNA VALLEY AK 1970 (000031)
TANANA RIVER BASIN FLOODS
  FAIRBANKS FLOOD CONTROL
                           1967 (000070) -
TANANA RIVER EXPLORING EXPED 1885
 REPORT OF MILITARY RECON IN AK MADE IN 1885 1886 (000009)
TANANA RIVER EXPLORING EXPED 1898
  ALASKA 1898 TANANA RIVER EXPLORING EXPED 1899 (000025)
TIMBER
 U S FOREST SERVICE RESOURCE BULL NOR
                                       963- (000099)
TLINGET INDIANS
 SPRUCE ROOT BASKETRY OF AK TLINGET 1944 (000050)
TPADE BEADS
```

TRADE BEADS IN ALASKA 1972 (000035)

TRADING POSTS

AT-ACK-A-COMMEDIATION

```
MAP OF CENTRAL ALASKA (MAP) 1970 (000033)
 TRANS ALASKAN MILITARY RUAD
   ALASKA 1899 COPPER RIVER EXPLORING EXPED 1899 (000002)
 TRANSPORTATION
   ALASKA 1948 (000078)
   ALASKAN PROBLEMS 1948 (000076)
   PROBLEMS OF ALASKA 1970 (000084)
   RECREATIONAL RESOURCES OF AK HWY AND OTHER ROADS IN AK 1944 (000097)
   TRANSPORTATION IN ALASKA 1948 (000075)
 TRANSPORTATION CORRIDOR
   PROBLEMS OF ALASKA 1970 (000084)
 TRANSPORTATION LEGISLATION
   PROVIDING FOR OCEAN TRANSPORTATION SVCE 1947 (00D077)
 TREES
   POCKET GUIDE TO ALASKA TREES
                               1929 (000065)
   POCKET GUIDE TO ALASKA TREES 1950 (000066)
 U S COAST GUARD
   PROBLEMS OF ALASKA 1970 (000084)
 U S NAVAL PETROLEUM RESERVE
   EXPLORATION OF NAVAL PETROLEUM RESERVE 1964 (000089)
U S POLITICS AND GOVT
   ECONOMIC DEVFLOPMENT IN ALASKA 1966 (OD0086)
U S PUBLIC LANDS
  ECONOMIC DÉVELOPMENT IN ALASKA 1966 (00D086)
VILLAGES
  PRIBILOF REPORT 1949 1951 (000094)
  REACHING RURAL ALASKAN NATIVES 1971 (000022)
VIOLINS
  ONE STRING VIOLIN (REALIA) 1925 (000014)
WATER COMPOSITION
  ECOLOGICAL CHANGES IN CHENA RIVER 1969 (000024)
WATER COMPOSITION - CHENA RIVER
  CHENA RIVER STUDY OF SUBARCTIC STREAM 1970 (000023)
WATER QUALITY
  ECOLOGICAL CHANGES IN CHENA RIVER 1969 (000024)
  EFFECTS OF PLACER MINING ON WATER QUALITY IN AK 1969 (.000008)
WATER QUALITY - CHENA RIVER
  CHENA RIVER STUDY OF SUBARCTIC STREAM 1970 (000023)
WATER RESOURCES
  MINERAL AND WATER RESOURCES OF AK 1964 (000092)
WATER RESOURCES DEVELOPMENT
  ALASKA NATURAL RESOURCES AND RAMPART PROJECT 1967 (000093)
  CONFERENCE PROCEEDINGS
                         1962 (000052)
  MARKET FOR RAMPART POWER YUKON RIVER AK
                                          1962 (000020)
  RAMPART PROJECT ALASKA 1965 (000095)
WOLVES
  WOLVES OF MOUNT MCKINLEY 1944 (000041)
WOOD PULP INDUSTRY
 () S FOREST SERVICE RESOURCE BULL NOR 963- (00D099)
WOOD PULP INDUSTRY - STATISTICS
 WOOD PROCESSING IN ALASKA 1961 1963 (000015)
YUKON GOLD DISTRICT
         1897 RELIEF OF DESTITUTE IN GOLD FIELDS 1898 (000055)
 ALASKA
         1898 RELIEF OF DESTITUTE IN YUKON REGION 1898 (000056)
YUKON RIVER DESCRIPTION AND TRAVEL
```

ALASKA 1897 UP AND DOWN YUKON 1.897 (2000-1.05)

YUKON RIVER EXPLORING EXPED 1869

RECONNAISSANCE OF YUKON RIVER 1869 1871 (000057)

YUKON RIVER EXPLORING FXPED 1883

REPORT OF MILITARY RECON MADE IN AK IN 1883 1885 (000061)

REPORT OF MILITARY RECUN MADE IN AK IN 1883 1885 (000062)

YUKON RIVER EXPLORING EXPED 1899

ALASKA 1899 YUKON RIVER EXPLORING EXPED 1899 (000058)

YUKON RIVER MILITARY RECON

ALASKA 1899 YUKON RIVER EXPLORING EXPED 1899 (000058)

RECONNAISSANCE OF YUKON RIVER 1869 1871 (000057)

YUKON RIVER POWER UTILIZATION

MARKET FOR RAMPART POWER YUKON RIVER AK 1962 (000020)

YUKON RIVER WATER POWER — BIBL

BIBLIOGRAPHY AND HISTORICAL NOTES 1946-1968 1969 (000006)